



User information

DURAG

D-ISC 100

Modul-Modbus RTU Modul-Modbus TCP



Before starting any work please read the operating manual!



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This manual...

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1 General

We hope that our products and services will make a significant contribution to your success. We will be delighted if the information provided in this publication achieves this.

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If anything is not clear:

Please contact the manufacturer! Obtain answers to your questions.

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All information and instructions in this manual have been compiled on the basis of the applicable standards and regulations, state-of-the-art technology and many years of knowledge and experience.

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- Use other than in accordance with the designated use
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- Technical changes
- Use of non-approved spare parts
- Use of defective and/or improperly repaired devices

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1.4

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2 DURAG Modbus

2.1 General information on the DURAG – Modbus protocol



This chapter summarises the essential DURAG Modbus information for operating and managing DURAG devices. The separate DURAG Modbus register map also contains information necessary for the programming of Modbus clients.

This chapter is intended for operating and maintenance personnel who already have the necessary basic information technology and networking knowledge. We have summarised information sources for basic information on the Modbus for you in the following chapter.

The Modbus protocol is a communication protocol. Since 1979, because of its open source status, Modbus has become a de facto standard in the industry. The data are transmitted in binary form. This form of the Modbus is referred to as Modbus **RTU** (serial transmission) or Modbus **TCP** (transmission by TCP/IP). DURAG Modbus is based on the Modbus protocol and defines additional information **over and above it**, such as register assignments.



When working with DURAG devices / sensors, you should refer also to the additional information contained in the respective device-specific operating instructions.

2.2 Basic Modbus information

Basic information about Modbus can be obtained from the Internet at the home page of the **Modbus Independent User Organisation (IDA)***.

- "Modbus Protocol Specifications"
http://www.modbus.org/docs/Modbus_Application_Protocol_V1_1b3.pdf
(describes the datagrams (protocol data units) that are exchanged between client and server on various different buses and networks).
- "Modbus over Serial Line Specification and Implementation Guide"
http://www.modbus.org/docs/Modbus_over_serial_line_V1_02.pdf
(describes how the datagrams (protocol data units) are transmitted over serial lines / buses).
- "Modbus on TCP/IP Implementation Guide"
http://modbus.org/docs/Modbus_Messaging_Implementation_Guide_V1_0b.pdf
(describes how the datagrams (protocol data units) are transmitted over TCP/IP networks).

The specifications of the cables to be used for Modbus RTU operation can be found on the Internet under the address*

- http://www.modbus.org/docs/Modbus_over_serial_line_V1_02.pdf
in Chapter 3.6 "Cables".

***(DURAG GmbH offers no guarantee of the correctness of the Internet addresses. DURAG GmbH accepts no liability for the contents of the pages listed. The presenters of those pages take sole responsibility for them).**

3 Appendix

On the following pages we have compiled for you register maps and definitions of the contents of DURAG Modbus registers.

Already in the first table "Additional information" you will find useful instructions which are applicable to all the following tables. Amongst other things register types and abbreviations are explained there.

Also see about this

 [D-ISC 100 Modul-Modbus RTU, Modul-Modbus TCP \(Register-Map\) \[► 11\]](#)

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D-ISC 100: Additional information

Supported function codes:

Read register / coil (R)	01, 02, 03, 04
Write register / coil (W)	05, 06, 15, 16

Parameter / function types:

ASCII	Text string (null-terminated) in ASCII format Example: Content of register base address + 0: 0x 41 42 Content of register base address + 1: 0x 43 00 → Value = 0x 41 42 43 00 = ABC
Binary16	Binary value (16 bit), Register size = 1, see related table for decoding Example: Content of register base address: 0x 01 23 → Value = 0x 01 23 = 0b 0000 0001 0010 0011
Binary32	Binary value (32 bit), Register size = 2, see related table for decoding Example: Content of register base address + 0: 0x 01 23 Content of register base address + 1: 0x 45 67 → Value = 0x 01 23 45 67 = 0b 0000 0001 0010 0011 0100 0101 0110 0111
Binary64	Binary value (64 bit), Register size = 4, see related table for decoding Example: Content of register base address + 0: 0x 01 23 Content of register base address + 1: 0x 45 67 Content of register base address + 2: 0x 89 AB Content of register base address + 3: 0x CD EF → Value = 0x 01 23 45 67 89 AB CD EF = 0b 0000 0001 0010 0011 0100 0101 0110 0111 1000 1001 1010 1011 1100 1101 1110 1111
Binary function	Starts a function of the device (16 bit), Register size = 1 Usage: Write '1' into the register to start the function. The register value will be rewritten to '0' by the device if the function is executed.
DateTime	Unix time stamp format (32 bit), Register size = 2 Example: Content of register base address + 0: 0x 48 FC Content of register base address + 1: 0x 2C 70 → Value = 0x 48 FC 2C 70 = 20.10.2008 09:00
Float	Floating point number in IEEE 754 format (32 bit, word swapped), Register size = 2 Example: Content of register base address + 0: 0x 06 4B Content of register base address + 1: 0x 3F 9E → Value = 0x 3F 9E 06 4B = 1.234567
Unsigned16	Unsigned integer value (16 bit), Register size = 1 Example: Content of register base address: 0x 01 23 → Value = 0x 01 23 = 0d 291

Abbreviations:

PRC	Protocol revision common (register is valid from this revision and higher, see D-ESI 100 / "Version info" for the related device)
PRS	Protocol revision specific (register is valid from this revision and higher, see D-ESI 100 / "Version info" for the related device)
R	Read register / coil (see "Supported function codes")
W	Write register / coil (see "Supported function codes")

D-ISC 100: Additional information

Remarks:

1

All messages are stored until next read out. The parameter shows all messages since last read out. Directly after reading messages the parameter will be cleared and only active messages will be shown.

If the message parameter is read partially by read register function the parameter will be cleared completely. If the message parameter is read partially by read coil function only the read coils will be cleared

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D-ISC 100: Modbus register map

Parameter / function name	Register size	Register base address	Coil base address	R/W	Parameter type	PRC	Description
Device information							
Manufacturer name	10	0	-	R	ASCII	01.00	Name of the manufacturer
Device name	10	10	-	R	ASCII	01.00	Name of the device
Device serial number	5	24	-	R	ASCII	01.00	Serial number of the device
Status: D-ISC 100							
Device status	2	240	3840	R	Binary32	01.00	Overall status of the D-ISC 100 device (see table "Device status")
Variable output: Sensors							
S1: variable output							Variable output: Sensor S1
S1.1: Value	2	256	-	R	Float	01.00	1. measuring value - value
S1.1: Unit code	1	258	-	R	Unsigned16	01.00	1. measuring value - unit code (see table "Unit code")
S1.1: Status	2	259	4144	R	Binary32	01.00	1. measuring value - status (see table "Sn status")
S1.2: Value	2	261	-	R	Float	01.00	2. measuring value - value
S1.2: Unit code	1	263	-	R	Unsigned16	01.00	2. measuring value - unit code (see table "Unit code")
S1.2: Status	2	264	4224	R	Binary32	01.00	2. measuring value - status (see table "Sn status")
S1.3: Value	2	266	-	R	Float	01.00	3. measuring value - value
S1.3: Unit code	1	268	-	R	Unsigned16	01.00	3. measuring value - unit code (see table "Unit code")
S1.3: Status	2	269	4304	R	Binary32	01.00	3. measuring value - status (see table "Sn status")
S1.4: Value	2	271	-	R	Float	01.00	4. measuring value - value
S1.4: Unit code	1	273	-	R	Unsigned16	01.00	4. measuring value - unit code (see table "Unit code")
S1.4: Status	2	274	4384	R	Binary32	01.00	4. measuring value - status (see table "Sn status")
S1: Device status ²	2	276	4416	R	Binary32	01.00	Status of the whole measuring device (see table "Sn device status")
S1: Device status extended	1	278	4448	R	Binary16	01.00	Extended status of the whole measuring device (see table "Sn device status extended")

D-ISC 100: Modbus register map

Parameter / function name	Register size	Register base address	Coil base address	R/W	Parameter type	PRC	Description
S2: variable output							Variable output: Sensor S2
S2.1: Value	2	288	-	R	Float	01.00	1. measuring value - value
S2.1: Unit code	1	290	-	R	Unsigned16	01.00	1. measuring value - unit code (see table "Unit code")
S2.1: Status	2	291	4656	R	Binary32	01.00	1. measuring value - status (see table "Sn status")
S2.2: Value	2	293	-	R	Float	01.00	2. measuring value - value
S2.2: Unit code	1	295	-	R	Unsigned16	01.00	2. measuring value - unit code (see table "Unit code")
S2.2: Status	2	296	4736	R	Binary32	01.00	2. measuring value - status (see table "Sn status")
S2.3: Value	2	298	-	R	Float	01.00	3. measuring value - value
S2.3: Unit code	1	300	-	R	Unsigned16	01.00	3. measuring value - unit code (see table "Unit code")
S2.3: Status	2	301	4816	R	Binary32	01.00	3. measuring value - status (see table "Sn status")
S2.4: Value	2	303	-	R	Float	01.00	4. measuring value - value
S2.4: Unit code	1	305	-	R	Unsigned16	01.00	4. measuring value - unit code (see table "Unit code")
S2.4: Status	2	306	4896	R	Binary32	01.00	4. measuring value - status (see table "Sn status")
S2: Device status ²	2	308	4928	R	Binary32	01.00	Status of the whole measuring device (see table "Sn device status")
S2: Device status extended	1	310	4960	R	Binary16	01.00	Extended status of the whole measuring device (see table "Sn device status extended")
S3: variable output							Variable output: Sensor S3
S3.1: Value	2	320	-	R	Float	01.00	1. measuring value - value
S3.1: Unit code	1	322	-	R	Unsigned16	01.00	1. measuring value - unit code (see table "Unit code")
S3.1: Status	2	323	5168	R	Binary32	01.00	1. measuring value - status (see table "Sn status")
S3.2: Value	2	325	-	R	Float	01.00	2. measuring value - value
S3.2: Unit code	1	327	-	R	Unsigned16	01.00	2. measuring value - unit code (see table "Unit code")
S3.2: Status	2	328	5248	R	Binary32	01.00	2. measuring value - status (see table "Sn status")
S3.3: Value	2	330	-	R	Float	01.00	3. measuring value - value
S3.3: Unit code	1	332	-	R	Unsigned16	01.00	3. measuring value - unit code (see table "Unit code")
S3.3: Status	2	333	5328	R	Binary32	01.00	3. measuring value - status (see table "Sn status")
S3.4: Value	2	335	-	R	Float	01.00	4. measuring value - value
S3.4: Unit code	1	337	-	R	Unsigned16	01.00	4. measuring value - unit code (see table "Unit code")
S3.4: Status	2	338	5408	R	Binary32	01.00	4. measuring value - status (see table "Sn status")
S3: Device status ²	2	340	5440	R	Binary32	01.00	Status of the whole measuring device (see table "Sn device status")
S3: Device status extended	1	342	5472	R	Binary16	01.00	Extended status of the whole measuring device (see table "Sn device status extended")

D-ISC 100: Modbus register map

Parameter / function name	Register size	Register base address	Coil base address	R/W	Parameter type	PRC	Description
S4: variable output							Variable output: Sensor S4
S4.1: Value	2	352	-	R	Float	01.00	1. measuring value - value
S4.1: Unit code	1	354	-	R	Unsigned16	01.00	1. measuring value - unit code (see table "Unit code")
S4.1: Status	2	355	5680	R	Binary32	01.00	1. measuring value - status (see table "Sn status")
S4.2: Value	2	357	-	R	Float	01.00	2. measuring value - value
S4.2: Unit code	1	359	-	R	Unsigned16	01.00	2. measuring value - unit code (see table "Unit code")
S4.2: Status	2	360	5760	R	Binary32	01.00	2. measuring value - status (see table "Sn status")
S4.3: Value	2	362	-	R	Float	01.00	3. measuring value - value
S4.3: Unit code	1	364	-	R	Unsigned16	01.00	3. measuring value - unit code (see table "Unit code")
S4.3: Status	2	365	5840	R	Binary32	01.00	3. measuring value - status (see table "Sn status")
S4.4: Value	2	367	-	R	Float	01.00	4. measuring value - value
S4.4: Unit code	1	369	-	R	Unsigned16	01.00	4. measuring value - unit code (see table "Unit code")
S4.4: Status	2	370	5920	R	Binary32	01.00	4. measuring value - status (see table "Sn status")
S4: Device status ²	2	372	5952	R	Binary32	01.00	Status of the whole measuring device (see table "Sn device status")
S4: Device status extended	1	374	5984	R	Binary16	01.00	Extended status of the whole measuring device (see table "Sn device status extended")
S5: variable output							Variable output: Sensor S5
S5.1: Value	2	384	-	R	Float	01.00	1. measuring value - value
S5.1: Unit code	1	386	-	R	Unsigned16	01.00	1. measuring value - unit code (see table "Unit code")
S5.1: Status	2	387	6192	R	Binary32	01.00	1. measuring value - status (see table "Sn status")
S5.2: Value	2	389	-	R	Float	01.00	2. measuring value - value
S5.2: Unit code	1	391	-	R	Unsigned16	01.00	2. measuring value - unit code (see table "Unit code")
S5.2: Status	2	392	6272	R	Binary32	01.00	2. measuring value - status (see table "Sn status")
S5.3: Value	2	394	-	R	Float	01.00	3. measuring value - value
S5.3: Unit code	1	396	-	R	Unsigned16	01.00	3. measuring value - unit code (see table "Unit code")
S5.3: Status	2	397	6352	R	Binary32	01.00	3. measuring value - status (see table "Sn status")
S5.4: Value	2	399	-	R	Float	01.00	4. measuring value - value
S5.4: Unit code	1	401	-	R	Unsigned16	01.00	4. measuring value - unit code (see table "Unit code")
S5.4: Status	2	402	6432	R	Binary32	01.00	4. measuring value - status (see table "Sn status")
S5: Device status ²	2	404	6464	R	Binary32	01.00	Status of the whole measuring device (see table "Sn device status")
S5: Device status extended	1	406	6496	R	Binary16	01.00	Extended status of the whole measuring device (see table "Sn device status extended")

D-ISC 100: Modbus register map

Parameter / function name	Register size	Register base address	Coil base address	R/W	Parameter type	PRC	Description
S6: variable output							Variable output: Sensor S6
S6.1: Value	2	416	-	R	Float	01.00	1. measuring value - value
S6.1: Unit code	1	418	-	R	Unsigned16	01.00	1. measuring value - unit code (see table "Unit code")
S6.1: Status	2	419	6704	R	Binary32	01.00	1. measuring value - status (see table "Sn status")
S6.2: Value	2	421	-	R	Float	01.00	2. measuring value - value
S6.2: Unit code	1	423	-	R	Unsigned16	01.00	2. measuring value - unit code (see table "Unit code")
S6.2: Status	2	424	6784	R	Binary32	01.00	2. measuring value - status (see table "Sn status")
S6.3: Value	2	426	-	R	Float	01.00	3. measuring value - value
S6.3: Unit code	1	428	-	R	Unsigned16	01.00	3. measuring value - unit code (see table "Unit code")
S6.3: Status	2	429	6864	R	Binary32	01.00	3. measuring value - status (see table "Sn status")
S6.4: Value	2	431	-	R	Float	01.00	4. measuring value - value
S6.4: Unit code	1	433	-	R	Unsigned16	01.00	4. measuring value - unit code (see table "Unit code")
S6.4: Status	2	434	6944	R	Binary32	01.00	4. measuring value - status (see table "Sn status")
S6: Device status ²	2	436	6976	R	Binary32	01.00	Status of the whole measuring device (see table "Sn device status")
S6: Device status extended	1	438	7008	R	Binary16	01.00	Extended status of the whole measuring device (see table "Sn device status extended")
S7: variable output							Variable output: Sensor S7
S7.1: Value	2	448	-	R	Float	01.00	1. measuring value - value
S7.1: Unit code	1	450	-	R	Unsigned16	01.00	1. measuring value - unit code (see table "Unit code")
S7.1: Status	2	451	7216	R	Binary32	01.00	1. measuring value - status (see table "Sn status")
S7.2: Value	2	453	-	R	Float	01.00	2. measuring value - value
S7.2: Unit code	1	455	-	R	Unsigned16	01.00	2. measuring value - unit code (see table "Unit code")
S7.2: Status	2	456	7296	R	Binary32	01.00	2. measuring value - status (see table "Sn status")
S7.3: Value	2	458	-	R	Float	01.00	3. measuring value - value
S7.3: Unit code	1	460	-	R	Unsigned16	01.00	3. measuring value - unit code (see table "Unit code")
S7.3: Status	2	461	7376	R	Binary32	01.00	3. measuring value - status (see table "Sn status")
S7.4: Value	2	463	-	R	Float	01.00	4. measuring value - value
S7.4: Unit code	1	465	-	R	Unsigned16	01.00	4. measuring value - unit code (see table "Unit code")
S7.4: Status	2	466	7456	R	Binary32	01.00	4. measuring value - status (see table "Sn status")
S7: Device status ²	2	468	7488	R	Binary32	01.00	Status of the whole measuring device (see table "Sn device status")
S7: Device status extended	1	470	7520	R	Binary16	01.00	Extended status of the whole measuring device (see table "Sn device status extended")

D-ISC 100: Modbus register map

Parameter / function name	Register size	Register base address	Coil base address	R/W	Parameter type	PRC	Description
S8: variable output							Variable output: Sensor S8
S8.1: Value	2	480	-	R	Float	01.00	1. measuring value - value
S8.1: Unit code	1	482	-	R	Unsigned16	01.00	1. measuring value - unit code (see table "Unit code")
S8.1: Status	2	483	7728	R	Binary32	01.00	1. measuring value - status (see table "Sn status")
S8.2: Value	2	485	-	R	Float	01.00	2. measuring value - value
S8.2: Unit code	1	487	-	R	Unsigned16	01.00	2. measuring value - unit code (see table "Unit code")
S8.2: Status	2	488	7808	R	Binary32	01.00	2. measuring value - status (see table "Sn status")
S8.3: Value	2	490	-	R	Float	01.00	3. measuring value - value
S8.3: Unit code	1	492	-	R	Unsigned16	01.00	3. measuring value - unit code (see table "Unit code")
S8.3: Status	2	493	7888	R	Binary32	01.00	3. measuring value - status (see table "Sn status")
S8.4: Value	2	495	-	R	Float	01.00	4. measuring value - value
S8.4: Unit code	1	497	-	R	Unsigned16	01.00	4. measuring value - unit code (see table "Unit code")
S8.4: Status	2	498	7968	R	Binary32	01.00	4. measuring value - status (see table "Sn status")
S8: Device status ²	2	500	8000	R	Binary32	01.00	Status of the whole measuring device (see table "Sn device status")
S8: Device status extended	1	502	8032	R	Binary16	01.00	Extended status of the whole measuring device (see table "Sn device status extended")

D-ISC 100: Modbus register map

Parameter / function name	Register size	Register base address	Coil base address	R/W	Parameter type	PRC	Description
Variable output: Extension modules							
M1: variable output	Variable output: Extension module M1						
M1.1: Value	2	512	-	R	Float	01.00	1. value - value
M1.1: Unit code	1	514	-	R	Unsigned16	01.00	1. value - unit code (see table "Unit code")
M1.1: Status	2	515	8240	R	Binary32	01.00	1. value - status (see table "Mn status")
M1.2: Value	2	517	-	R	Float	01.00	2. value - value
M1.2: Unit code	1	519	-	R	Unsigned16	01.00	2. value - unit code (see table "Unit code")
M1.2: Status	2	520	8320	R	Binary32	01.00	2. value - status (see table "Mn status")
M1.3: Value	2	522	-	R	Float	01.00	3. value - value
M1.3: Unit code	1	524	-	R	Unsigned16	01.00	3. value - unit code (see table "Unit code")
M1.3: Status	2	525	8400	R	Binary32	01.00	3. value - status (see table "Mn status")
M1.4: Value	2	527	-	R	Float	01.00	4. value - value
M1.4: Unit code	1	529	-	R	Unsigned16	01.00	4. value - unit code (see table "Unit code")
M1.4: Status	2	530	8480	R	Binary32	01.00	4. value - status (see table "Mn status")
M1.5: Value	2	532	-	R	Float	01.00	5. value - value
M1.5: Unit code	1	534	-	R	Unsigned16	01.00	5. value - unit code (see table "Unit code")
M1.5: Status	2	535	8560	R	Binary32	01.00	5. value - status (see table "Mn status")
M1.6: Value	2	537	-	R	Float	01.00	6. value - value
M1.6: Unit code	1	539	-	R	Unsigned16	01.00	6. value - unit code (see table "Unit code")
M1.6: Status	2	540	8640	R	Binary32	01.00	6. value - status (see table "Mn status")
M1.7: Value	2	542	-	R	Float	01.00	7. value - value
M1.7: Unit code	1	544	-	R	Unsigned16	01.00	7. value - unit code (see table "Unit code")
M1.7: Status	2	545	8720	R	Binary32	01.00	7. value - status (see table "Mn status")
M1.8: Value	2	547	-	R	Float	01.00	8. value - value
M1.8: Unit code	1	549	-	R	Unsigned16	01.00	8. value - unit code (see table "Unit code")
M1.8: Status	2	550	8800	R	Binary32	01.00	8. value - status (see table "Mn status")
M1: Module status	2	552	8832	R	Binary32	01.00	Status of the whole measuring device (see table "Mn module status")
M1: Module status extended	1	554	8864	R	Binary16	01.00	Extended status of the whole measuring device (see table "Mn module status extended")

D-ISC 100: Modbus register map

Parameter / function name	Register size	Register base address	Coil base address	R/W	Parameter type	PRC	Description
M2: variable output							Variable output: Extension module M2
M2.1: Value	2	576	-	R	Float	01.00	1. value - value
M2.1: Unit code	1	578	-	R	Unsigned16	01.00	1. value - unit code (see table "Unit code")
M2.1: Status	2	579	9264	R	Binary32	01.00	1. value - status (see table "Mn status")
M2.2: Value	2	581	-	R	Float	01.00	2. value - value
M2.2: Unit code	1	583	-	R	Unsigned16	01.00	2. value - unit code (see table "Unit code")
M2.2: Status	2	584	9344	R	Binary32	01.00	2. value - status (see table "Mn status")
M2.3: Value	2	586	-	R	Float	01.00	3. value - value
M2.3: Unit code	1	588	-	R	Unsigned16	01.00	3. value - unit code (see table "Unit code")
M2.3: Status	2	589	9424	R	Binary32	01.00	3. value - status (see table "Mn status")
M2.4: Value	2	591	-	R	Float	01.00	4. value - value
M2.4: Unit code	1	593	-	R	Unsigned16	01.00	4. value - unit code (see table "Unit code")
M2.4: Status	2	594	9504	R	Binary32	01.00	4. value - status (see table "Mn status")
M2.5: Value	2	596	-	R	Float	01.00	5. value - value
M2.5: Unit code	1	598	-	R	Unsigned16	01.00	5. value - unit code (see table "Unit code")
M2.5: Status	2	599	9584	R	Binary32	01.00	5. value - status (see table "Mn status")
M2.6: Value	2	601	-	R	Float	01.00	6. value - value
M2.6: Unit code	1	603	-	R	Unsigned16	01.00	6. value - unit code (see table "Unit code")
M2.6: Status	2	604	9664	R	Binary32	01.00	6. value - status (see table "Mn status")
M2.7: Value	2	606	-	R	Float	01.00	7. value - value
M2.7: Unit code	1	608	-	R	Unsigned16	01.00	7. value - unit code (see table "Unit code")
M2.7: Status	2	609	9744	R	Binary32	01.00	7. value - status (see table "Mn status")
M2.8: Value	2	611	-	R	Float	01.00	8. value - value
M2.8: Unit code	1	613	-	R	Unsigned16	01.00	8. value - unit code (see table "Unit code")
M2.8: Status	2	614	9824	R	Binary32	01.00	8. value - status (see table "Mn status")
M2: Module status	2	616	9856	R	Binary32	01.00	Status of the whole measuring device (see table "Mn module status")
M2: Module status extended	1	618	9888	R	Binary16	01.00	Extended status of the whole measuring device (see table "Mn module status extended")

D-ISC 100: Modbus register map

Parameter / function name	Register size	Register base address	Coil base address	R/W	Parameter type	PRC	Description
M3: variable output							Variable output: Extension module M3
M3.1: Value	2	640	-	R	Float	01.00	1. value - value
M3.1: Unit code	1	642	-	R	Unsigned16	01.00	1. value - unit code (see table "Unit code")
M3.1: Status	2	643	10288	R	Binary32	01.00	1. value - status (see table "Mn status")
M3.2: Value	2	645	-	R	Float	01.00	2. value - value
M3.2: Unit code	1	647	-	R	Unsigned16	01.00	2. value - unit code (see table "Unit code")
M3.2: Status	2	648	10368	R	Binary32	01.00	2. value - status (see table "Mn status")
M3.3: Value	2	650	-	R	Float	01.00	3. value - value
M3.3: Unit code	1	652	-	R	Unsigned16	01.00	3. value - unit code (see table "Unit code")
M3.3: Status	2	653	10448	R	Binary32	01.00	3. value - status (see table "Mn status")
M3.4: Value	2	655	-	R	Float	01.00	4. value - value
M3.4: Unit code	1	657	-	R	Unsigned16	01.00	4. value - unit code (see table "Unit code")
M3.4: Status	2	658	10528	R	Binary32	01.00	4. value - status (see table "Mn status")
M3.5: Value	2	660	-	R	Float	01.00	5. value - value
M3.5: Unit code	1	662	-	R	Unsigned16	01.00	5. value - unit code (see table "Unit code")
M3.5: Status	2	663	10608	R	Binary32	01.00	5. value - status (see table "Mn status")
M3.6: Value	2	665	-	R	Float	01.00	6. value - value
M3.6: Unit code	1	667	-	R	Unsigned16	01.00	6. value - unit code (see table "Unit code")
M3.6: Status	2	668	10688	R	Binary32	01.00	6. value - status (see table "Mn status")
M3.7: Value	2	670	-	R	Float	01.00	7. value - value
M3.7: Unit code	1	672	-	R	Unsigned16	01.00	7. value - unit code (see table "Unit code")
M3.7: Status	2	673	10768	R	Binary32	01.00	7. value - status (see table "Mn status")
M3.8: Value	2	675	-	R	Float	01.00	8. value - value
M3.8: Unit code	1	677	-	R	Unsigned16	01.00	8. value - unit code (see table "Unit code")
M3.8: Status	2	678	10848	R	Binary32	01.00	8. value - status (see table "Mn status")
M3: Module status	2	680	10880	R	Binary32	01.00	Status of the whole measuring device (see table "Mn module status")
M3: Module status extended	1	682	10912	R	Binary16	01.00	Extended status of the whole measuring device (see table "Mn module status extended")

D-ISC 100: Modbus register map

Parameter / function name	Register size	Register base address	Coil base address	R/W	Parameter type	PRC	Description
M4: variable output							Variable output: Extension module M4
M4.1: Value	2	704	-	R	Float	01.00	1. value - value
M4.1: Unit code	1	706	-	R	Unsigned16	01.00	1. value - unit code (see table "Unit code")
M4.1: Status	2	707	11312	R	Binary32	01.00	1. value - status (see table "Mn status")
M4.2: Value	2	709	-	R	Float	01.00	2. value - value
M4.2: Unit code	1	711	-	R	Unsigned16	01.00	2. value - unit code (see table "Unit code")
M4.2: Status	2	712	11392	R	Binary32	01.00	2. value - status (see table "Mn status")
M4.3: Value	2	714	-	R	Float	01.00	3. value - value
M4.3: Unit code	1	716	-	R	Unsigned16	01.00	3. value - unit code (see table "Unit code")
M4.3: Status	2	717	11472	R	Binary32	01.00	3. value - status (see table "Mn status")
M4.4: Value	2	719	-	R	Float	01.00	4. value - value
M4.4: Unit code	1	721	-	R	Unsigned16	01.00	4. value - unit code (see table "Unit code")
M4.4: Status	2	722	11552	R	Binary32	01.00	4. value - status (see table "Mn status")
M4.5: Value	2	724	-	R	Float	01.00	5. value - value
M4.5: Unit code	1	726	-	R	Unsigned16	01.00	5. value - unit code (see table "Unit code")
M4.5: Status	2	727	11632	R	Binary32	01.00	5. value - status (see table "Mn status")
M4.6: Value	2	729	-	R	Float	01.00	6. value - value
M4.6: Unit code	1	731	-	R	Unsigned16	01.00	6. value - unit code (see table "Unit code")
M4.6: Status	2	732	11712	R	Binary32	01.00	6. value - status (see table "Mn status")
M4.7: Value	2	734	-	R	Float	01.00	7. value - value
M4.7: Unit code	1	736	-	R	Unsigned16	01.00	7. value - unit code (see table "Unit code")
M4.7: Status	2	737	11792	R	Binary32	01.00	7. value - status (see table "Mn status")
M4.8: Value	2	739	-	R	Float	01.00	8. value - value
M4.8: Unit code	1	741	-	R	Unsigned16	01.00	8. value - unit code (see table "Unit code")
M4.8: Status	2	742	11872	R	Binary32	01.00	8. value - status (see table "Mn status")
M4: Module status	2	744	11904	R	Binary32	01.00	Status of the whole measuring device (see table "Mn module status")
M4: Module status extended	1	746	11936	R	Binary16	01.00	Extended status of the whole measuring device (see table "Mn module status extended")

D-ISC 100: Modbus register map

Parameter / function name	Register size	Register base address	Coil base address	R/W	Parameter type	PRC	Description
Variable output: Integrated modules							
AO0: variable output							Variable output: Integrated module AO0
AO0.1: Value	2	768	-	R	Float	01.00	1. value - value
AO0.1: Unit code	1	770	-	R	Unsigned16	01.00	1. value - unit code (see table "Unit code")
AO0.1: Status	2	771	12336	R	Binary32	01.00	1. value - status (see table "Mn status")
AO0: Module status	2	808	12928	R	Binary32	01.00	Status of the whole measuring device (see table "Mn module status")
DO0: variable output							Variable output: Integrated module DO0
DO0.1: Value	2	832	-	R	Float	01.00	1. value - value
DO0.1: Unit code	1	834	-	R	Unsigned16	01.00	1. value - unit code (see table "Unit code")
DO0.1: Status	2	835	13360	R	Binary32	01.00	1. value - status (see table "Mn status")
DO0.2: Value	2	837	-	R	Float	01.00	2. value - value
DO0.2: Unit code	1	839	-	R	Unsigned16	01.00	2. value - unit code (see table "Unit code")
DO0.2: Status	2	840	13440	R	Binary32	01.00	2. value - status (see table "Mn status")
DO0.3: Value	2	842	-	R	Float	01.00	3. value - value
DO0.3: Unit code	1	844	-	R	Unsigned16	01.00	3. value - unit code (see table "Unit code")
DO0.3: Status	2	845	13520	R	Binary32	01.00	3. value - status (see table "Mn status")
DO0: Module status	2	872	13952	R	Binary32	01.00	Status of the whole measuring device (see table "Mn module status")
DI0: variable output							Variable output: Integrated module DI0
DI0.1: Value	2	896	-	R	Float	01.00	1. value - value
DI0.1: Unit code	1	898	-	R	Unsigned16	01.00	1. value - unit code (see table "Unit code")
DI0.1: Status	2	899	14384	R	Binary32	01.00	1. value - status (see table "Mn status")
DI0: Module status	2	936	14976	R	Binary32	01.00	Status of the whole measuring device (see table "Mn module status")

D-ISC 100: Modbus register map

Parameter / function name	Register size	Register base address	Coil base address	R/W	Parameter type	PRC	Description
Variable output:							
Media conditions							
MC0: variable output							Variable output: Integrated module MC0
MC0.1: Value	2	960	-	R	Float	01.06	1. value - value
MC0.1: Unit code	1	962	-	R	Unsigned16	01.06	1. value - unit code (see table "Unit code")
MC0.1: Status	2	963	15408	R	Binary32	01.06	1. value - status (see table "MC0 status")
MC0.2: Value	2	965	-	R	Float	01.06	2. value - value
MC0.2: Unit code	1	967	-	R	Unsigned16	01.06	2. value - unit code (see table "Unit code")
MC0.2: Status	2	968	15488	R	Binary32	01.06	2. value - status (see table "MC0 status")
MC0.3: Value	2	970	-	R	Float	01.06	1. value - value
MC0.3: Unit code	1	972	-	R	Unsigned16	01.06	1. value - unit code (see table "Unit code")
MC0.3: Status	2	973	15568	R	Binary32	01.06	1. value - status (see table "MC0 status")
MC0.4: Value	2	975	-	R	Float	01.06	2. value - value
MC0.4: Unit code	1	977	-	R	Unsigned16	01.06	2. value - unit code (see table "Unit code")
MC0.4: Status	2	978	15648	R	Binary32	01.06	2. value - status (see table "MC0 status")
MC0: Module status	2	980	15680	R	Binary32	01.06	Status of the whole measuring device (see table "MC0 module status")

D-ISC 100: Modbus register map

Parameter / function name	Register size	Register base address	Coil base address	R/W	Parameter type	PRC	Description
Variable output:							
External sensors							
SX1: variable output							Variable output: Integrated module SX1
SX1.1: Value	2	1408	-	R	Float	01.06	1. value - value
SX1.1: Unit code	1	1410	-	R	Unsigned16	01.06	1. value - unit code (see table "Unit code")
SX1.1: Status	2	1411	22576	R	Binary32	01.06	1. value - status (see table "SXn status")
SX1.2: Value	2	1413	-	R	Float	01.06	2. value - value
SX1.2: Unit code	1	1415	-	R	Unsigned16	01.06	2. value - unit code (see table "Unit code")
SX1.2: Status	2	1416	22656	R	Binary32	01.06	2. value - status (see table "SXn status")
SX1.3: Value	2	1418	-	R	Float	01.06	1. value - value
SX1.3: Unit code	1	1420	-	R	Unsigned16	01.06	1. value - unit code (see table "Unit code")
SX1.3: Status	2	1421	22736	R	Binary32	01.06	1. value - status (see table "SXn status")
SX1.4: Value	2	1423	-	R	Float	01.06	2. value - value
SX1.4: Unit code	1	1425	-	R	Unsigned16	01.06	2. value - unit code (see table "Unit code")
SX1.4: Status	2	1426	22816	R	Binary32	01.06	2. value - status (see table "SXn status")
SX1: Module status	2	1428	22848	R	Binary32	01.06	Status of the whole measuring device (see table "SXn module status")
SX2: variable output							Variable output: Integrated module SX2
SX2.1: Value	2	1440	-	R	Float	01.06	1. value - value
SX2.1: Unit code	1	1442	-	R	Unsigned16	01.06	1. value - unit code (see table "Unit code")
SX2.1: Status	2	1443	23088	R	Binary32	01.06	1. value - status (see table "SXn status")
SX2.2: Value	2	1445	-	R	Float	01.06	2. value - value
SX2.2: Unit code	1	1447	-	R	Unsigned16	01.06	2. value - unit code (see table "Unit code")
SX2.2: Status	2	1448	23168	R	Binary32	01.06	2. value - status (see table "SXn status")
SX2.3: Value	2	1450	-	R	Float	01.06	1. value - value
SX2.3: Unit code	1	1452	-	R	Unsigned16	01.06	1. value - unit code (see table "Unit code")
SX2.3: Status	2	1453	23248	R	Binary32	01.06	1. value - status (see table "SXn status")
SX2.4: Value	2	1455	-	R	Float	01.06	2. value - value
SX2.4: Unit code	1	1457	-	R	Unsigned16	01.06	2. value - unit code (see table "Unit code")
SX2.4: Status	2	1458	23328	R	Binary32	01.06	2. value - status (see table "SXn status")
SX2: Module status	2	1460	23360	R	Binary32	01.06	Status of the whole measuring device (see table "SXn module status")

D-ISC 100: Modbus register map

Parameter / function name	Register size	Register base address	Coil base address	R/W	Parameter type	PRC	Description
Messages: D-ISC 100¹							
Information	4	1536	24576	R	Binary64	01.00	See table "D-ISC 100 Messages / Information"
Warnings	4	1540	24640	R	Binary64	01.00	See table "D-ISC 100 Messages / Warnings"
Simple errors	4	1544	24704	R	Binary64	01.00	See table "D-ISC 100 Messages / Simple errors"
Critical errors	4	1548	24768	R	Binary64	01.00	See table "D-ISC 100 Messages / Critical errors"
Messages: Sensors¹							
S1: Messages				Messages: Sensor S1			
Information	4	1552	24832	R	Binary64	01.01	See table "Messages / Information" for the related device
Warnings	4	1556	24896	R	Binary64	01.01	See table "Messages / Warnings" for the related device
Simple errors	4	1560	24960	R	Binary64	01.01	See table "Messages / Simple errors" for the related device
Critical errors	4	1564	25024	R	Binary64	01.01	See table "Messages / Critical errors" for the related device
S2: Messages				Messages: Sensor S2			
Information	4	1568	25088	R	Binary64	01.01	See table "Messages / Information" for the related device
Warnings	4	1572	25152	R	Binary64	01.01	See table "Messages / Warnings" for the related device
Simple errors	4	1576	25216	R	Binary64	01.01	See table "Messages / Simple errors" for the related device
Critical errors	4	1580	25280	R	Binary64	01.01	See table "Messages / Critical errors" for the related device
S3: Messages				Messages: Sensor S3			
Information	4	1584	25344	R	Binary64	01.01	See table "Messages / Information" for the related device
Warnings	4	1588	25408	R	Binary64	01.01	See table "Messages / Warnings" for the related device
Simple errors	4	1592	25472	R	Binary64	01.01	See table "Messages / Simple errors" for the related device
Critical errors	4	1596	25536	R	Binary64	01.01	See table "Messages / Critical errors" for the related device
S4: Messages				Messages: Sensor S4			
Information	4	1600	25600	R	Binary64	01.01	See table "Messages / Information" for the related device
Warnings	4	1604	25664	R	Binary64	01.01	See table "Messages / Warnings" for the related device
Simple errors	4	1608	25728	R	Binary64	01.01	See table "Messages / Simple errors" for the related device
Critical errors	4	1612	25792	R	Binary64	01.01	See table "Messages / Critical errors" for the related device

D-ISC 100: Modbus register map

Parameter / function name	Register size	Register base address	Coil base address	R/W	Parameter type	PRC	Description
S5: Messages							Messages: Sensor S5
Information	4	1616	25856	R	Binary64	01.01	See table "Messages / Information" for the related device
Warnings	4	1620	25920	R	Binary64	01.01	See table "Messages / Warnings" for the related device
Simple errors	4	1624	25984	R	Binary64	01.01	See table "Messages / Simple errors" for the related device
Critical errors	4	1628	26048	R	Binary64	01.01	See table "Messages / Critical errors" for the related device
S6: Messages							Messages: Sensor S6
Information	4	1632	26112	R	Binary64	01.01	See table "Messages / Information" for the related device
Warnings	4	1636	26176	R	Binary64	01.01	See table "Messages / Warnings" for the related device
Simple errors	4	1640	26240	R	Binary64	01.01	See table "Messages / Simple errors" for the related device
Critical errors	4	1644	26304	R	Binary64	01.01	See table "Messages / Critical errors" for the related device
S7: Messages							Messages: Sensor S7
Information	4	1648	26368	R	Binary64	01.01	See table "Messages / Information" for the related device
Warnings	4	1652	26432	R	Binary64	01.01	See table "Messages / Warnings" for the related device
Simple errors	4	1656	26496	R	Binary64	01.01	See table "Messages / Simple errors" for the related device
Critical errors	4	1660	26560	R	Binary64	01.01	See table "Messages / Critical errors" for the related device
S8: Messages							Messages: Sensor S8
Information	4	1664	26624	R	Binary64	01.01	See table "Messages / Information" for the related device
Warnings	4	1668	26688	R	Binary64	01.01	See table "Messages / Warnings" for the related device
Simple errors	4	1672	26752	R	Binary64	01.01	See table "Messages / Simple errors" for the related device
Critical errors	4	1676	26816	R	Binary64	01.01	See table "Messages / Critical errors" for the related device

D-ISC 100: Modbus register map

Parameter / function name	Register size	Register base address	Coil base address	R/W	Parameter type	PRC	Description
Messages: Extension modules ¹							
M1: Messages				Messages: Module M1			
Information	4	1680	26880	R	Binary64	01.01	See table "Messages / Information" for the related module
Warnings	4	1684	26944	R	Binary64	01.01	See table "Messages / Warnings" for the related module
Simple errors	4	1688	27008	R	Binary64	01.01	See table "Messages / Simple errors" for the related module
Critical errors	4	1692	27072	R	Binary64	01.01	See table "Messages / Critical errors" for the related module
M2: Messages				Messages: Module M2			
Information	4	1696	27136	R	Binary64	01.01	See table "Messages / Information" for the related module
Warnings	4	1700	27200	R	Binary64	01.01	See table "Messages / Warnings" for the related module
Simple errors	4	1704	27264	R	Binary64	01.01	See table "Messages / Simple errors" for the related module
Critical errors	4	1708	27328	R	Binary64	01.01	See table "Messages / Critical errors" for the related module
M3: Messages				Messages: Module M3			
Information	4	1712	27392	R	Binary64	01.01	See table "Messages / Information" for the related module
Warnings	4	1716	27456	R	Binary64	01.01	See table "Messages / Warnings" for the related module
Simple errors	4	1720	27520	R	Binary64	01.01	See table "Messages / Simple errors" for the related module
Critical errors	4	1724	27584	R	Binary64	01.01	See table "Messages / Critical errors" for the related module
M4: Messages				Messages: Module M4			
Information	4	1728	27648	R	Binary64	01.01	See table "Messages / Information" for the related module
Warnings	4	1732	27712	R	Binary64	01.01	See table "Messages / Warnings" for the related module
Simple errors	4	1736	27776	R	Binary64	01.01	See table "Messages / Simple errors" for the related module
Critical errors	4	1740	27840	R	Binary64	01.01	See table "Messages / Critical errors" for the related module

D-ISC 100: Modbus register map

Parameter / function name	Register size	Register base address	Coil base address	R/W	Parameter type	PRC	Description
Maintenance functions							
S1: Maintenance functions							Maintenance functions: Sensor S1
Start automatic control cycle	1	1792	28672	R/W	Binary function	01.05	Starts automatic control cycle and stops automatically if process ends
Stop automatic control cycle ²	1	1793	28688	R/W	Binary function	01.05	Stops automatic control cycle
Start zero point check	1	1794	28704	R/W	Binary function	01.05	Starts zero point measurement
Stop zero point check	1	1795	28720	R/W	Binary function	01.05	Stops zero point measurement
Start contamination check	1	1796	28736	R/W	Binary function	01.05	Starts contamination measurement
Stop contamination check	1	1797	28752	R/W	Binary function	01.05	Stops contamination measurement
Start reference check	1	1798	28768	R/W	Binary function	01.05	Starts reference point measurement
Stop reference check	1	1799	28784	R/W	Binary function	01.05	Stops reference point measurement
Set maintenance	1	1800	28800	R/W	Binary function	01.05	Sets the sensor / device into the state 'maintenance'
Reset maintenance	1	1801	28816	R/W	Binary function	01.05	Resets the sensor / device from the state 'maintenance'
S2: Maintenance functions							Maintenance functions: Sensor S2
Start automatic control cycle	1	1808	28928	R/W	Binary function	01.05	Starts automatic control cycle and stops automatically if process ends
Stop automatic control cycle ²	1	1809	28944	R/W	Binary function	01.05	Stops automatic control cycle
Start zero point check	1	1810	28960	R/W	Binary function	01.05	Starts zero point measurement
Stop zero point check	1	1811	28976	R/W	Binary function	01.05	Stops zero point measurement
Start contamination check	1	1812	28992	R/W	Binary function	01.05	Starts contamination measurement
Stop contamination check	1	1813	29008	R/W	Binary function	01.05	Stops contamination measurement
Start reference check	1	1814	29024	R/W	Binary function	01.05	Starts reference point measurement
Stop reference check	1	1815	29040	R/W	Binary function	01.05	Stops reference point measurement
Set maintenance	1	1816	29056	R/W	Binary function	01.05	Sets the sensor / device into the state 'maintenance'
Reset maintenance	1	1817	29072	R/W	Binary function	01.05	Resets the sensor / device from the state 'maintenance'
S3: Maintenance functions							Maintenance functions: Sensor S3
Start automatic control cycle	1	1824	29184	R/W	Binary function	01.05	Starts automatic control cycle and stops automatically if process ends
Stop automatic control cycle ²	1	1825	29200	R/W	Binary function	01.05	Stops automatic control cycle
Start zero point check	1	1826	29216	R/W	Binary function	01.05	Starts zero point measurement
Stop zero point check	1	1827	29232	R/W	Binary function	01.05	Stops zero point measurement
Start contamination check	1	1828	29248	R/W	Binary function	01.05	Starts contamination measurement
Stop contamination check	1	1829	29264	R/W	Binary function	01.05	Stops contamination measurement
Start reference check	1	1830	29280	R/W	Binary function	01.05	Starts reference point measurement
Stop reference check	1	1831	29296	R/W	Binary function	01.05	Stops reference point measurement
Set maintenance	1	1832	29312	R/W	Binary function	01.05	Sets the sensor / device into the state 'maintenance'
Reset maintenance	1	1833	29328	R/W	Binary function	01.05	Resets the sensor / device from the state 'maintenance'

D-ISC 100: Modbus register map

Parameter / function name	Register size	Register base address	Coil base address	R/W	Parameter type	PRC	Description
S4: Maintenance functions							Maintenance functions: Sensor S4
Start automatic control cycle	1	1840	29440	R/W	Binary function	01.05	Starts automatic control cycle and stops automatically if process ends
Stop automatic control cycle ²	1	1841	29456	R/W	Binary function	01.05	Stops automatic control cycle
Start zero point check	1	1842	29472	R/W	Binary function	01.05	Starts zero point measurement
Stop zero point check	1	1843	29488	R/W	Binary function	01.05	Stops zero point measurement
Start contamination check	1	1844	29504	R/W	Binary function	01.05	Starts contamination measurement
Stop contamination check	1	1845	29520	R/W	Binary function	01.05	Stops contamination measurement
Start reference check	1	1846	29536	R/W	Binary function	01.05	Starts reference point measurement
Stop reference check	1	1847	29552	R/W	Binary function	01.05	Stops reference point measurement
Set maintenance	1	1848	29568	R/W	Binary function	01.05	Sets the sensor / device into the state 'maintenance'
Reset maintenance	1	1849	29584	R/W	Binary function	01.05	Resets the sensor / device from the state 'maintenance'
S5: Maintenance functions							Maintenance functions: Sensor S5
Start automatic control cycle	1	1856	29696	R/W	Binary function	01.05	Starts automatic control cycle and stops automatically if process ends
Stop automatic control cycle ²	1	1857	29712	R/W	Binary function	01.05	Stops automatic control cycle
Start zero point check	1	1858	29728	R/W	Binary function	01.05	Starts zero point measurement
Stop zero point check	1	1859	29744	R/W	Binary function	01.05	Stops zero point measurement
Start contamination check	1	1860	29760	R/W	Binary function	01.05	Starts contamination measurement
Stop contamination check	1	1861	29776	R/W	Binary function	01.05	Stops contamination measurement
Start reference check	1	1862	29792	R/W	Binary function	01.05	Starts reference point measurement
Stop reference check	1	1863	29808	R/W	Binary function	01.05	Stops reference point measurement
Set maintenance	1	1864	29824	R/W	Binary function	01.05	Sets the sensor / device into the state 'maintenance'
Reset maintenance	1	1865	29840	R/W	Binary function	01.05	Resets the sensor / device from the state 'maintenance'
S6: Maintenance functions							Maintenance functions: Sensor S6
Start automatic control cycle	1	1872	29952	R/W	Binary function	01.05	Starts automatic control cycle and stops automatically if process ends
Stop automatic control cycle ²	1	1873	29968	R/W	Binary function	01.05	Stops automatic control cycle
Start zero point check	1	1874	29984	R/W	Binary function	01.05	Starts zero point measurement
Stop zero point check	1	1875	30000	R/W	Binary function	01.05	Stops zero point measurement
Start contamination check	1	1876	30016	R/W	Binary function	01.05	Starts contamination measurement
Stop contamination check	1	1877	30032	R/W	Binary function	01.05	Stops contamination measurement
Start reference check	1	1878	30048	R/W	Binary function	01.05	Starts reference point measurement
Stop reference check	1	1879	30064	R/W	Binary function	01.05	Stops reference point measurement
Set maintenance	1	1880	30080	R/W	Binary function	01.05	Sets the sensor / device into the state 'maintenance'
Reset maintenance	1	1881	30096	R/W	Binary function	01.05	Resets the sensor / device from the state 'maintenance'

D-ISC 100: Modbus register map

Parameter / function name	Register size	Register base address	Coil base address	R/W	Parameter type	PRC	Description
S7: Maintenance functions							Maintenance functions: Sensor S7
Start automatic control cycle	1	1888	30208	R/W	Binary function	01.05	Starts automatic control cycle and stops automatically if process ends
Stop automatic control cycle ²	1	1889	30224	R/W	Binary function	01.05	Stops automatic control cycle
Start zero point check	1	1890	30240	R/W	Binary function	01.05	Starts zero point measurement
Stop zero point check	1	1891	30256	R/W	Binary function	01.05	Stops zero point measurement
Start contamination check	1	1892	30272	R/W	Binary function	01.05	Starts contamination measurement
Stop contamination check	1	1893	30288	R/W	Binary function	01.05	Stops contamination measurement
Start reference check	1	1894	30304	R/W	Binary function	01.05	Starts reference point measurement
Stop reference check	1	1895	30320	R/W	Binary function	01.05	Stops reference point measurement
Set maintenance	1	1896	30336	R/W	Binary function	01.05	Sets the sensor / device into the state 'maintenance'
Reset maintenance	1	1897	30352	R/W	Binary function	01.05	Resets the sensor / device from the state 'maintenance'
S8: Maintenance functions							Maintenance functions: Sensor S8
Start automatic control cycle	1	1898	30368	R/W	Binary function	01.05	Starts automatic control cycle and stops automatically if process ends
Stop automatic control cycle ²	1	1899	30384	R/W	Binary function	01.05	Stops automatic control cycle
Start zero point check	1	1900	30400	R/W	Binary function	01.05	Starts zero point measurement
Stop zero point check	1	1901	30416	R/W	Binary function	01.05	Stops zero point measurement
Start contamination check	1	1902	30432	R/W	Binary function	01.05	Starts contamination measurement
Stop contamination check	1	1903	30448	R/W	Binary function	01.05	Stops contamination measurement
Start reference check	1	1904	30464	R/W	Binary function	01.05	Starts reference point measurement
Stop reference check	1	1905	30480	R/W	Binary function	01.05	Stops reference point measurement
Set maintenance	1	1906	30496	R/W	Binary function	01.05	Sets the sensor / device into the state 'maintenance'
Reset maintenance	1	1907	30512	R/W	Binary function	01.05	Resets the sensor / device from the state 'maintenance'
Date / Time							
Actual date / time	2	2168	34688	R/W	DateTime	01.00	Actual date and time, can be used as life tick

D-ISC 100: Device status

Bit	Coil address	Description	PRC
00	Base + 00	Message in: information	01.00
01	Base + 01	Message in: warnings	01.00
02	Base + 02	Message in: simple errors	01.00
03	Base + 03	Message in: critical errors	01.00
04	Base + 04	Fault (F)	01.00
05	Base + 05	Maintenance / check function (C)	01.00
06	Base + 06	Maintenance demand (M)	01.00
07	Base + 07	Out of specification (S)	01.00
08	Base + 08	Function test / simulation active (T)	01.00
09	Base + 09	No messages	01.00
10	Base + 10	-	
11	Base + 11	Message register: changed	01.00
12	Base + 12	-	
13	Base + 13	-	
14	Base + 14	-	
15	Base + 15	-	
16	Base + 16	-	
17	Base + 17	-	
18	Base + 18	-	
19	Base + 19	-	
20	Base + 20	-	
21	Base + 21	-	
22	Base + 22	-	
23	Base + 23	-	
24	Base + 24	-	
25	Base + 25	-	
26	Base + 26	-	
27	Base + 27	-	
28	Base + 28	-	
29	Base + 29	-	
30	Base + 30	-	
31	Base + 31	-	

D-ISC 100: MC0 module status

Bit	Coil address	Description	PRC
00	Base + 00	-	
01	Base + 01	-	
02	Base + 02	-	
03	Base + 03	-	
04	Base + 04	Fault (F)	01.06
05	Base + 05	-	
06	Base + 06	-	
07	Base + 07	-	
08	Base + 08	-	
09	Base + 09	-	
10	Base + 10	-	
11	Base + 11	-	
12	Base + 12	-	
13	Base + 13	-	
14	Base + 14	-	
15	Base + 15	-	
16	Base + 16	-	
17	Base + 17	-	
18	Base + 18	-	
19	Base + 19	-	
20	Base + 20	-	
21	Base + 21	-	
22	Base + 22	-	
23	Base + 23	-	
24	Base + 24	-	
25	Base + 25	-	
26	Base + 26	-	
27	Base + 27	-	
28	Base + 28	-	
29	Base + 29	-	
30	Base + 30	-	
31	Base + 31	-	

D-ISC 100: MCO status

Bit	Coil address	Description	PRC
00	Base + 00	-	
01	Base + 01	-	
02	Base + 02	-	
03	Base + 03	-	
04	Base + 04	Fault (F)	01.06
05	Base + 05	-	
06	Base + 06	-	
07	Base + 07	-	01.06
08	Base + 08	Upper limit value active 1	01.06
09	Base + 09	Lower limit value active 1	01.06
10	Base + 10	Upper limit value active 2	01.06
11	Base + 11	Lower limit value active 2	01.06
12	Base + 12	-	
13	Base + 13	-	
14	Base + 14	-	
15	Base + 15	-	
16	Base + 16	Source: fault (F)	01.06
17	Base + 17	Source: offline	01.06
18	Base + 18	Source: not assigned	01.06
19	Base + 19	Source: not available	01.06
20	Base + 20	Source: type code mismatch	01.06
21	Base + 21	-	
22	Base + 22	Analog Input: Overrun	01.06
23	Base + 23	Analog Input: Underrun	01.06
24	Base + 24	-	
25	Base + 25	-	
26	Base + 26	-	
27	Base + 27	-	
28	Base + 28	-	
29	Base + 29	-	
30	Base + 30	-	
31	Base + 31	-	

D-ISC 100: Mn module status

Bit	Coil address	Description	PRC
00	Base + 00	Message in: information	01.00
01	Base + 01	Message in: warnings	01.00
02	Base + 02	Message in: simple errors	01.00
03	Base + 03	Message in: critical errors	01.00
04	Base + 04	Common fault (F)	01.00
05	Base + 05	Module: not available	01.00
06	Base + 06	-	
07	Base + 07	Function test / simulation active	01.02
08	Base + 08	-	
09	Base + 09	-	
10	Base + 10	-	
11	Base + 11	-	
12	Base + 12	-	
13	Base + 13	-	
14	Base + 14	-	
15	Base + 15	-	
16	Base + 16	-	
17	Base + 17	-	
18	Base + 18	-	
19	Base + 19	-	
20	Base + 20	-	
21	Base + 21	-	
22	Base + 22	-	
23	Base + 23	-	
24	Base + 24	-	
25	Base + 25	-	
26	Base + 26	-	
27	Base + 27	-	
28	Base + 28	-	
29	Base + 29	-	
30	Base + 30	-	
31	Base + 31	Check 'Device status extended'	01.00

D-ISC 100: Mn module status extended

Bit	Coil address	Description	PRC
00	Base + 00	Not available	01.00
01	Base + 01	Offline	01.00
02	Base + 02	Online	01.00
03	Base + 03	Data exchange	01.00
04	Base + 04	Other device online	01.00
05	Base + 05	Unknown type code	01.00
06	Base + 06	Illegal measuring value (NaN)	01.00
07	Base + 07	-	
08	Base + 08	Newer protocol revision	01.00
09	Base + 09	Different firmware revision	01.00
10	Base + 10	-	
11	Base + 11	-	
12	Base + 12	-	
13	Base + 13	-	
14	Base + 14	-	
15	Base + 15	-	

D-ISC 100: Mn status

Bit	Coil address	Description	PRC
00	Base + 00	Message in: information	01.00
01	Base + 01	Message in: warnings	01.00
02	Base + 02	Message in: simple errors	01.00
03	Base + 03	Message in: critical errors	01.00
04	Base + 04	Common fault (F)	01.00
05	Base + 05	Module: not available	01.00
06	Base + 06	Channel: not available	01.00
07	Base + 07	Function test / simulation active	01.00
08	Base + 08	Source/Target: fault (F)	01.00
09	Base + 09	Source/Target: offline	01.00
10	Base + 10	Source/Target: not assigned	01.00
11	Base + 11	Source/Target: not available	01.00
12	Base + 12	-	01.00
13	Base + 13	-	01.00
14	Base + 14	-	01.00
15	Base + 15	Check 'Modul status extended'	01.00
16	Base + 16	Reserved for module specific status	
17	Base + 17	Reserved for module specific status	
18	Base + 18	Reserved for module specific status	
19	Base + 19	Reserved for module specific status	
20	Base + 20	Reserved for module specific status	
21	Base + 21	Reserved for module specific status	
22	Base + 22	Reserved for module specific status	
23	Base + 23	Reserved for module specific status	
24	Base + 24	Reserved for module specific status	
25	Base + 25	Reserved for module specific status	
26	Base + 26	Reserved for module specific status	
27	Base + 27	Reserved for module specific status	
28	Base + 28	Reserved for module specific status	
29	Base + 29	Reserved for module specific status	
30	Base + 30	Reserved for module specific status	
31	Base + 31	Reserved for module specific status	

D-ISC 100: Sn device status

Bit	Coil address	Description	PRC
00	Base + 00	Message in: information	01.00
01	Base + 01	Message in: warnings	01.00
02	Base + 02	Message in: simple errors	01.00
03	Base + 03	Message in: critical errors	01.00
04	Base + 04	Fault (F)	01.00
05	Base + 05	Maintenance / check function (C)	01.00
06	Base + 06	Maintenance demand (M)	01.00
07	Base + 07	Out of specification (S)	01.00
08	Base + 08	Function test / simulation active	01.00
09	Base + 09	-	
10	Base + 10	-	
11	Base + 11	Message register: changed	01.00
12	Base + 12	-	
13	Base + 13	-	
14	Base + 14	-	
15	Base + 15	-	
16	Base + 16	-	
17	Base + 17	-	
18	Base + 18	-	
19	Base + 19	-	
20	Base + 20	-	
21	Base + 21	-	
22	Base + 22	-	
23	Base + 23	-	
24	Base + 24	-	
25	Base + 25	-	
26	Base + 26	-	
27	Base + 27	-	
28	Base + 28	-	
29	Base + 29	-	
30	Base + 30	-	
31	Base + 31	Check 'Device status extended'	01.00

D-ISC 100: Sn device status extended

Bit	Coil address	Description	PRC
00	Base + 00	Not available	01.00
01	Base + 01	Offline	01.00
02	Base + 02	Online	01.00
03	Base + 03	Data exchange	01.00
04	Base + 04	Other device online	01.00
05	Base + 05	Unknown type code	01.00
06	Base + 06	Illegal measuring value (NaN)	01.00
07	Base + 07	-	
08	Base + 08	Newer protocol revision	01.00
09	Base + 09	Different firmware revision	01.00
10	Base + 10	-	
11	Base + 11	-	
12	Base + 12	-	
13	Base + 13	-	
14	Base + 14	-	
15	Base + 15	-	

D-ISC 100: Sn status

Bit	Coil address	Description	PRC
00	Base + 00	Message in: information	01.00
01	Base + 01	Message in: warnings	01.00
02	Base + 02	Message in: simple errors	01.00
03	Base + 03	Message in: critical errors	01.00
04	Base + 04	Fault (F)	01.00
05	Base + 05	Maintenance / check function (C)	01.00
06	Base + 06	Maintenance demand (M)	01.00
07	Base + 07	Out of specification (S)	01.00
08	Base + 08	Upper limit value 1 active	01.00
09	Base + 09	Lower limit value 1 active	01.00
10	Base + 10	Upper limit value 2 active	01.00
11	Base + 11	Lower limit value 2 active	01.00
12	Base + 12	Normal measurement	01.00
13	Base + 13	Zero point measurement	01.00
14	Base + 14	Contamination measurement	01.00
15	Base + 15	Reference point measurement	01.00
16	Base + 16	Sign negative	01.00
17	Base + 17	Function test / simulation active	01.00
18	Base + 18	Busy	01.00
19	Base + 19	Message register: changed	01.00
20	Base + 20	-	
21	Base + 21	-	
22	Base + 22	-	
23	Base + 23	-	
24	Base + 24	-	
25	Base + 25	-	
26	Base + 26	-	
27	Base + 27	-	
28	Base + 28	-	
29	Base + 29	-	
30	Base + 30	-	
31	Base + 31	Check 'Device status extended'	01.00

D-ISC 100: SXn module status

Bit	Coil address	Description	PRC
00	Base + 00	-	
01	Base + 01	-	
02	Base + 02	-	
03	Base + 03	-	
04	Base + 04	Fault (F)	01.07
05	Base + 05	-	
06	Base + 06	-	
07	Base + 07	-	
08	Base + 08	-	
09	Base + 09	-	
10	Base + 10	-	
11	Base + 11	-	
12	Base + 12	-	
13	Base + 13	-	
14	Base + 14	-	
15	Base + 15	-	
16	Base + 16	-	
17	Base + 17	-	
18	Base + 18	-	
19	Base + 19	-	
20	Base + 20	-	
21	Base + 21	-	
22	Base + 22	-	
23	Base + 23	-	
24	Base + 24	-	
25	Base + 25	-	
26	Base + 26	-	
27	Base + 27	-	
28	Base + 28	-	
29	Base + 29	-	
30	Base + 30	-	
31	Base + 31	-	

D-ISC 100: SXn status

Bit	Coil address	Description	PRC
00	Base + 00	-	
01	Base + 01	-	
02	Base + 02	-	
03	Base + 03	-	
04	Base + 04	Fault (F)	01.07
05	Base + 05	-	
06	Base + 06	-	
07	Base + 07	-	01.07
08	Base + 08	Upper limit value active 1	01.07
09	Base + 09	Lower limit value active 1	01.07
10	Base + 10	Upper limit value active 2	01.07
11	Base + 11	Lower limit value active 2	01.07
12	Base + 12	-	
13	Base + 13	-	
14	Base + 14	-	
15	Base + 15	-	
16	Base + 16	Source: fault (F)	01.07
17	Base + 17	Source: offline	01.07
18	Base + 18	Source: not assigned	01.07
19	Base + 19	Source: not available	01.07
20	Base + 20	Unknown type code	01.07
21	Base + 21	-	
22	Base + 22	Analog Input: Overrun	01.07
23	Base + 23	Analog Input: Underrun	01.07
24	Base + 24	-	
25	Base + 25	-	
26	Base + 26	-	
27	Base + 27	-	
28	Base + 28	-	
29	Base + 29	-	
30	Base + 30	-	
31	Base + 31	-	

D-ISC 100: Unit code

Unit code	Unit	Type	Description	PRC
0x0000	n.a.	Not assigned		01.00
0x0001	%	Percent	Percent	01.00
0x0002	‰	Permil	Parts per thousand	01.00
0x0011	A	Current	Ampere	01.00
0x0012	mA	Current output (0..20 mA)	Milliampere (0..20 mA Interface)	01.00
0x0013	mA	Current input 1 (0..20 mA)	Milliampere (0..20 mA Interface)	01.25
0x0014	mA	Current input 2 (0..20 mA)	Milliampere (0..20 mA Interface)	01.25
0x0015	mA	Current input 3 (0..20 mA)	Milliampere (0..20 mA Interface)	01.25
0x0016	mA	Current input 4 (0..20 mA)	Milliampere (0..20 mA Interface)	01.25
0x0021	V	Voltage	Volt	01.00
0x0022	mV	Voltage	Millivolt	01.00
0x0031	K	Temperature	Kelvin	01.00
0x0032	°C	Temperature	Degree Celsius	01.00
0x0041	hPa	Pressure	Hectopascal	01.00
0x0042	Pa	Pressure	Pascal	01.00
0x0043	mbar	Pressure	Millibar	01.00
0x0044	hPa	Absolute pressure	Hectopascal	01.25
0x0045	hPa	Differential pressure	Hectopascal	01.25
0x0046	hPa	Differential pressure (dp1)	Hectopascal	01.25
0x0047	hPa	Differential pressure (dp2)	Hectopascal	01.25
0x0048	hPa	Differential pressure (dp3)	Hectopascal	01.25
0x0051	mg/m ³	Dust	Milligram per cubic meter (general)	01.00
0x0052	mg/Nm ³	Dust (norm.)	Milligram per standard cubic meter (general)	01.00
0x0053	mg/m ³	Dust (dry)	Milligram per cubic meter (dry)	01.00
0x0054	mg/m ³	Dust (wet)	Milligram per cubic meter (wet)	01.00
0x0071	%T	Transmission	Transmission in percent (single path)	01.00
0x0072	%OP	Opacity	Opacity in percent (general with PLCF)	01.00
0x0073	OD	Optical density	Optical density / Extinction	01.00
0x0074	SL	Stray light	Stray light	01.00
0x0075	I	Intensity	Intensity	01.00
0x0076	%OP(SP)	Opacity (SP)	Opacity in percent (single path)	01.13
0x0077	%OP(DP)	Opacity (DP)	Opacity in percent (double path)	01.13
0x0078	1/km	Extinction coefficient	Extinction coefficient (K)	01.21
0x0079	km	Visibility	Visibility (V)	01.21
0x0091	m/s	Speed	Meter per second	01.00
0x0092	m/s	Speed (amount)	Meter per second (amount)	01.01
0x0101	m ³ /h	Volume flow	Cubic meter per hour	01.00
0x0102	Nm ³ /h	Volume flow (norm.)	Standard cubic meter per hour	01.00
0x0103	l/s	Volume flow	Liter per second	01.00
0x0104	kg/h	Mass flow	Kilogram per hour	01.25
0x0121	s	Time	Second	01.00
0x0122	min.	Time	Minute	01.00
0x0123	h	Time	Hour	01.00
0x0124	d	Time	Day	01.00
0x0125	mon.	Time	Month	01.00
0x0126	a	Time	Year	01.00
0x0127	ms	Time	Millisecond	01.00
0x0131	m	Length	Meter	01.00
0x0132	mm	Length	Millimeter	01.00
0x0133	km	Length	Kilometer	01.00
0x0141	1/s	Frequency	Per second	01.00
0x0142	Hz	Frequency	Hertz	01.00
0x0151		Binary	Binary value (On/Off)	01.24
0x1001	°	Angle	Angle in degree	01.00
0x1201	Pulse/s	Flame signal	Pulses per second	01.00
0x1202	%FI	Flame intensity	Percent flame intensity	01.00
0x1203	%Stability1	Flame stability 1	Percent flame stability simple smoothing	01.27
0x1204	%Stability2	Flame stability 2	Percent flame stability dynamic smoothing	01.27
0x1301	Sparks	Ignition spark counter	Number of produced ignition sparks	01.28
0xFFFF	unknown	Unknown type		01.22

D-ISC 100: D-ISC 100 Messages

Information			
Bit	Coil address	Description	PRS
00	Base + 00	-	
01	Base + 01	Startup (power on) [001]	01.00
02	Base + 02	Startup (extern reset) [002]	01.00
03	Base + 03	Startup (watchdog reset) [003]	01.00
04	Base + 04	Startup (bod reset) [004]	01.00
05	Base + 05	No backup of system settings found on SD card [005]	01.00
06	Base + 06	Changes on system settings saved successfully [006]	01.00
07	Base + 07	Backup of system settings not successful [007]	01.00
08	Base + 08	Backup of system settings successful [008]	01.00
09	Base + 09	Restore of system settings successful [009]	01.00
10	Base + 10	Backup of system settings inoperative [010]	01.00
11	Base + 11	One or more device descriptions copied [011]	01.00
12	Base + 12	Device description not found on SD card [012]	01.00
13	Base + 13	Device description on SD card inoperative [013]	01.00
14	Base + 14	System description copied [014]	01.00
15	Base + 15	System description not found on SD card [015]	01.00
16	Base + 16	System description on SD card inoperative [016]	01.00
17	Base + 17	DURAG-Bus: load current very low [017]	01.00
18	Base + 18	Internal file system formatted [018]	01.00
19	Base + 19	SD card: file system faulty [019]	01.00
20	Base + 20	-	
21	Base + 21	-	
22	Base + 22	-	
23	Base + 23	-	
24	Base + 24	-	
25	Base + 25	-	
26	Base + 26	-	
27	Base + 27	-	
28	Base + 28	-	
29	Base + 29	-	
30	Base + 30	-	
31	Base + 31	-	
32	Base + 32	-	
33	Base + 33	-	
34	Base + 34	-	
35	Base + 35	-	
36	Base + 36	-	
37	Base + 37	-	
38	Base + 38	-	
39	Base + 39	-	
40	Base + 40	-	
41	Base + 41	-	
42	Base + 42	-	
43	Base + 43	-	
44	Base + 44	-	
45	Base + 45	-	
46	Base + 46	-	
47	Base + 47	-	
48	Base + 48	-	
49	Base + 49	-	
50	Base + 50	-	
51	Base + 51	-	
52	Base + 52	-	
53	Base + 53	-	
54	Base + 54	-	
55	Base + 55	-	
56	Base + 56	-	
57	Base + 57	-	
58	Base + 58	-	
59	Base + 59	-	
60	Base + 60	-	
61	Base + 61	-	
62	Base + 62	-	
63	Base + 63	-	

D-ISC 100: D-ISC 100 Messages

Warnings			
Bit	Coil address	Description	PRS
00	Base + 00	System settings restored automatically [064]	01.00
01	Base + 01	New (factory) system settings generated automatically [065]	01.00
02	Base + 02	Device description not found in system [066]	01.00
03	Base + 03	Device description in system inoperative [067]	01.00
04	Base + 04	Default device description not found in system [068]	01.00
05	Base + 05	Default device description used as device description [069]	01.00
06	Base + 06	System description not found in system [070]	01.00
07	Base + 07	System description in system inoperative [071]	01.00
08	Base + 08	System description generated automatically [072]	01.00
09	Base + 09	Clock not set [073]	01.00
10	Base + 10	Battery low [074]	01.00
11	Base + 11	Communication error (HSN) [075]	01.00
12	Base + 12	Communication error (RTC) [076]	01.00
13	Base + 13	Communication error (ADC) [077]	01.00
14	Base + 14	SD card missing [078]	01.00
15	Base + 15	System temperature too high [079]	01.00
16	Base + 16	System temperature too low [080]	01.00
17	Base + 17	DURAG-Bus: supply voltage too high [081]	01.00
18	Base + 18	DURAG-Bus: supply voltage too low [082]	01.00
19	Base + 19	DURAG-Bus: load current too high [083]	01.00
20	Base + 20	Device description (Sensor) not found on SD card [084]	01.00
21	Base + 21	Device description (Module) not found on SD card [085]	01.04
22	Base + 22	More then one Modbus RTU module detected [086]	01.04
23	Base + 23	-	
24	Base + 24	-	
25	Base + 25	-	
26	Base + 26	-	
27	Base + 27	-	
28	Base + 28	-	
29	Base + 29	-	
30	Base + 30	-	
31	Base + 31	-	
32	Base + 32	-	
33	Base + 33	-	
34	Base + 34	-	
35	Base + 35	-	
36	Base + 36	-	
37	Base + 37	-	
38	Base + 38	-	
39	Base + 39	-	
40	Base + 40	-	
41	Base + 41	-	
42	Base + 42	-	
43	Base + 43	-	
44	Base + 44	-	
45	Base + 45	-	
46	Base + 46	-	
47	Base + 47	-	
48	Base + 48	-	
49	Base + 49	-	
50	Base + 50	-	
51	Base + 51	-	
52	Base + 52	-	
53	Base + 53	-	
54	Base + 54	-	
55	Base + 55	-	
56	Base + 56	-	
57	Base + 57	-	
58	Base + 58	-	
59	Base + 59	-	
60	Base + 60	-	
61	Base + 61	-	
62	Base + 62	-	
63	Base + 63	-	

D-ISC 100: D-ISC 100 Messages

Simple errors			
Bit	Coil address	Description	PRS
00	Base + 00	No system settings found [128]	01.00
01	Base + 01	System setting could not be saved [129]	01.00
02	Base + 02	System settings inoperative [130]	01.00
03	Base + 03	No valid system description available [131]	01.00
04	Base + 04	System parameter inoperative [132]	01.00
05	Base + 05	Firmware inoperative (Bootloader) [133]	01.00
06	Base + 06	Firmware inoperative (Application) [134]	01.00
07	Base + 07	Communication error (EEPROM) [135]	01.00
08	Base + 08	SD card write protected [136]	01.00
09	Base + 09	Internal file system faulty (access) [137]	01.00
10	Base + 10	Firmware fault (Init) [138]	01.00
11	Base + 11	-	
12	Base + 12	-	
13	Base + 13	-	
14	Base + 14	-	
15	Base + 15	-	
16	Base + 16	-	
17	Base + 17	-	
18	Base + 18	-	
19	Base + 19	-	
20	Base + 20	-	
21	Base + 21	-	
22	Base + 22	-	
23	Base + 23	-	
24	Base + 24	-	
25	Base + 25	-	
26	Base + 26	-	
27	Base + 27	-	
28	Base + 28	-	
29	Base + 29	-	
30	Base + 30	-	
31	Base + 31	-	
32	Base + 32	-	
33	Base + 33	-	
34	Base + 34	-	
35	Base + 35	-	
36	Base + 36	-	
37	Base + 37	-	
38	Base + 38	-	
39	Base + 39	-	
40	Base + 40	-	
41	Base + 41	-	
42	Base + 42	-	
43	Base + 43	-	
44	Base + 44	-	
45	Base + 45	-	
46	Base + 46	-	
47	Base + 47	-	
48	Base + 48	-	
49	Base + 49	-	
50	Base + 50	-	
51	Base + 51	-	
52	Base + 52	-	
53	Base + 53	-	
54	Base + 54	-	
55	Base + 55	-	
56	Base + 56	-	
57	Base + 57	-	
58	Base + 58	-	
59	Base + 59	-	
60	Base + 60	-	
61	Base + 61	-	
62	Base + 62	-	
63	Base + 63	-	

D-ISC 100: D-ISC 100 Messages

Critical errors			
Bit	Coil address	Description	PRS
00	Base + 00	Internal file system faulty (Format) [192]	01.00
01	Base + 01	Hardware fault [193]	01.00
02	Base + 02	Hardware fault [194]	01.00
03	Base + 03	No firmware (Application) [195]	01.00
04	Base + 04	Hardware fault [196]	01.01
05	Base + 05	Hardware fault [197]	01.01
06	Base + 06	-	
07	Base + 07	-	
08	Base + 08	-	
09	Base + 09	-	
10	Base + 10	-	
11	Base + 11	-	
12	Base + 12	-	
13	Base + 13	-	
14	Base + 14	-	
15	Base + 15	-	
16	Base + 16	-	
17	Base + 17	-	
18	Base + 18	-	
19	Base + 19	-	
20	Base + 20	-	
21	Base + 21	-	
22	Base + 22	-	
23	Base + 23	-	
24	Base + 24	-	
25	Base + 25	-	
26	Base + 26	-	
27	Base + 27	-	
28	Base + 28	-	
29	Base + 29	-	
30	Base + 30	-	
31	Base + 31	-	
32	Base + 32	-	
33	Base + 33	-	
34	Base + 34	-	
35	Base + 35	-	
36	Base + 36	-	
37	Base + 37	-	
38	Base + 38	-	
39	Base + 39	-	
40	Base + 40	-	
41	Base + 41	-	
42	Base + 42	-	
43	Base + 43	-	
44	Base + 44	-	
45	Base + 45	-	
46	Base + 46	-	
47	Base + 47	-	
48	Base + 48	-	
49	Base + 49	-	
50	Base + 50	-	
51	Base + 51	-	
52	Base + 52	-	
53	Base + 53	-	
54	Base + 54	-	
55	Base + 55	-	
56	Base + 56	-	
57	Base + 57	-	
58	Base + 58	-	
59	Base + 59	-	
60	Base + 60	-	
61	Base + 61	-	
62	Base + 62	-	
63	Base + 63	-	

D-ISC 100: D-FL 100-20 Messages

Information			
Bit	Coil address	Description	PRS
00	Base + 00	-	
01	Base + 01	Startup (power on) [001]	01.00
02	Base + 02	Startup (extern reset) [002]	01.00
03	Base + 03	Startup (watchdog reset) [003]	01.00
04	Base + 04	Startup (bod reset) [004]	01.00
05	Base + 05	-	
06	Base + 06	-	
07	Base + 07	-	
08	Base + 08	-	
09	Base + 09	-	
10	Base + 10	-	
11	Base + 11	-	
12	Base + 12	-	
13	Base + 13	-	
14	Base + 14	-	
15	Base + 15	-	
16	Base + 16	-	
17	Base + 17	-	
18	Base + 18	-	
19	Base + 19	-	
20	Base + 20	-	
21	Base + 21	-	
22	Base + 22	-	
23	Base + 23	-	
24	Base + 24	-	
25	Base + 25	-	
26	Base + 26	-	
27	Base + 27	-	
28	Base + 28	-	
29	Base + 29	-	
30	Base + 30	-	
31	Base + 31	-	
32	Base + 32	-	
33	Base + 33	-	
34	Base + 34	-	
35	Base + 35	-	
36	Base + 36	-	
37	Base + 37	-	
38	Base + 38	-	
39	Base + 39	-	
40	Base + 40	-	
41	Base + 41	-	
42	Base + 42	-	
43	Base + 43	-	
44	Base + 44	-	
45	Base + 45	-	
46	Base + 46	-	
47	Base + 47	-	
48	Base + 48	-	
49	Base + 49	-	
50	Base + 50	-	
51	Base + 51	-	
52	Base + 52	-	
53	Base + 53	-	
54	Base + 54	-	
55	Base + 55	-	
56	Base + 56	-	
57	Base + 57	-	
58	Base + 58	-	
59	Base + 59	-	
60	Base + 60	-	
61	Base + 61	-	
62	Base + 62	-	
63	Base + 63	-	

D-ISC 100: D-FL 100-20 Messages

Warnings			
Bit	Coil address	Description	PRS
00	Base + 00	Measuring value 1: upper limit value 1 active [064]	01.00
01	Base + 01	Measuring value 1: lower limit value 1 active [065]	01.00
02	Base + 02	Measuring value 1: upper limit value 2 active [066]	01.00
03	Base + 03	Measuring value 1: lower limit value 2 active [067]	01.00
04	Base + 04	Measuring value 2: upper limit value 1 active [068]	01.00
05	Base + 05	Measuring value 2: lower limit value 1 active [069]	01.00
06	Base + 06	Measuring value 2: upper limit value 2 active [070]	01.00
07	Base + 07	Measuring value 2: lower limit value 2 active [071]	01.00
08	Base + 08	Measuring value 3: upper limit value 1 active [072]	01.00
09	Base + 09	Measuring value 3: lower limit value 1 active [073]	01.00
10	Base + 10	Measuring value 3: upper limit value 2 active [074]	01.00
11	Base + 11	Measuring value 3: lower limit value 2 active [075]	01.00
12	Base + 12	Measuring value 4: upper limit value 1 active [076]	01.00
13	Base + 13	Measuring value 4: lower limit value 1 active [077]	01.00
14	Base + 14	Measuring value 4: upper limit value 2 active [078]	01.00
15	Base + 15	Measuring value 4: lower limit value 2 active [079]	01.00
16	Base + 16	Battery low [080]	01.00
17	Base + 17	Clock not set [081]	01.00
18	Base + 18	-	
19	Base + 19	-	
20	Base + 20	-	
21	Base + 21	-	
22	Base + 22	-	
23	Base + 23	-	
24	Base + 24	-	
25	Base + 25	-	
26	Base + 26	-	
27	Base + 27	-	
28	Base + 28	-	
29	Base + 29	-	
30	Base + 30	-	
31	Base + 31	-	
32	Base + 32	-	
33	Base + 33	-	
34	Base + 34	-	
35	Base + 35	-	
36	Base + 36	-	
37	Base + 37	-	
38	Base + 38	-	
39	Base + 39	-	
40	Base + 40	-	
41	Base + 41	-	
42	Base + 42	-	
43	Base + 43	-	
44	Base + 44	-	
45	Base + 45	-	
46	Base + 46	-	
47	Base + 47	-	
48	Base + 48	-	
49	Base + 49	-	
50	Base + 50	-	
51	Base + 51	-	
52	Base + 52	-	
53	Base + 53	-	
54	Base + 54	-	
55	Base + 55	-	
56	Base + 56	-	
57	Base + 57	-	
58	Base + 58	-	
59	Base + 59	-	
60	Base + 60	-	
61	Base + 61	-	
62	Base + 62	-	
63	Base + 63	-	

D-ISC 100: D-FL 100-20 Messages

Simple errors			
Bit	Coil address	Description	PRS
00	Base + 00	System parameter inoperative [128]	01.00
01	Base + 01	Firmware inoperative [129]	01.00
02	Base + 02	-	
03	Base + 03	-	
04	Base + 04	Absolute pressure sensor (p) underrun (I < 3.6 mA) [132]	01.00
05	Base + 05	Absolute pressure sensor (p) overrun (I > 21 mA) [133]	01.00
06	Base + 06	Temperature sensor (T) underrun (I < 3.6 mA) [134]	01.00
07	Base + 07	Temperature sensor (T) overrun (I > 21 mA) [135]	01.00
08	Base + 08	Differential pressure sensor (dp1) underrun (I < 3.6 mA) [136]	01.00
09	Base + 09	Differential pressure sensor (dp1) overrun (I > 21 mA) [137]	01.00
10	Base + 10	Differential pressure sensor (dp2) underrun (I < 3.6 mA) [138]	01.00
11	Base + 11	Differential pressure sensor (dp2) overrun (I > 21 mA) [139]	01.00
12	Base + 12	Differential pressure sensor (dp3) underrun (I < 3.6 mA) [140]	01.00
13	Base + 13	Differential pressure sensor (dp3) overrun (I > 21 mA) [141]	01.00
14	Base + 14	-	
15	Base + 15	-	
16	Base + 16	-	
17	Base + 17	-	
18	Base + 18	-	
19	Base + 19	-	
20	Base + 20	-	
21	Base + 21	-	
22	Base + 22	-	
23	Base + 23	-	
24	Base + 24	-	
25	Base + 25	-	
26	Base + 26	-	
27	Base + 27	-	
28	Base + 28	-	
29	Base + 29	-	
30	Base + 30	-	
31	Base + 31	-	
32	Base + 32	-	
33	Base + 33	-	
34	Base + 34	-	
35	Base + 35	-	
36	Base + 36	-	
37	Base + 37	-	
38	Base + 38	-	
39	Base + 39	-	
40	Base + 40	-	
41	Base + 41	-	
42	Base + 42	-	
43	Base + 43	-	
44	Base + 44	-	
45	Base + 45	-	
46	Base + 46	-	
47	Base + 47	-	
48	Base + 48	-	
49	Base + 49	-	
50	Base + 50	-	
51	Base + 51	-	
52	Base + 52	-	
53	Base + 53	-	
54	Base + 54	-	
55	Base + 55	-	
56	Base + 56	-	
57	Base + 57	-	
58	Base + 58	-	
59	Base + 59	-	
60	Base + 60	-	
61	Base + 61	-	
62	Base + 62	-	
63	Base + 63	-	

D-ISC 100: D-FL 100-20 Messages

Critical errors			
Bit	Coil address	Description	PRS
00	Base + 00	Hardware fault (Common) [192]	01.00
01	Base + 01	Hardware fault (RTC) [193]	01.00
02	Base + 02	Hardware fault (EEPROM) [194]	01.00
03	Base + 03	Hardware fault (ADC) [195]	01.00
04	Base + 04	-	
05	Base + 05	-	
06	Base + 06	-	
07	Base + 07	-	
08	Base + 08	-	
09	Base + 09	-	
10	Base + 10	-	
11	Base + 11	-	
12	Base + 12	-	
13	Base + 13	-	
14	Base + 14	-	
15	Base + 15	-	
16	Base + 16	-	
17	Base + 17	-	
18	Base + 18	-	
19	Base + 19	-	
20	Base + 20	-	
21	Base + 21	-	
22	Base + 22	-	
23	Base + 23	-	
24	Base + 24	-	
25	Base + 25	-	
26	Base + 26	-	
27	Base + 27	-	
28	Base + 28	-	
29	Base + 29	-	
30	Base + 30	-	
31	Base + 31	-	
32	Base + 32	-	
33	Base + 33	-	
34	Base + 34	-	
35	Base + 35	-	
36	Base + 36	-	
37	Base + 37	-	
38	Base + 38	-	
39	Base + 39	-	
40	Base + 40	-	
41	Base + 41	-	
42	Base + 42	-	
43	Base + 43	-	
44	Base + 44	-	
45	Base + 45	-	
46	Base + 46	-	
47	Base + 47	-	
48	Base + 48	-	
49	Base + 49	-	
50	Base + 50	-	
51	Base + 51	-	
52	Base + 52	-	
53	Base + 53	-	
54	Base + 54	-	
55	Base + 55	-	
56	Base + 56	-	
57	Base + 57	-	
58	Base + 58	-	
59	Base + 59	-	
60	Base + 60	-	
61	Base + 61	-	
62	Base + 62	-	
63	Base + 63	-	

D-ISC 100: D-FL 220 Messages

Information			
Bit	Coil address	Description	PRS
00	Base + 00	-	
01	Base + 01	Startup (power on)	01.00
02	Base + 02	Startup (extern reset)	01.11
03	Base + 03	Startup (watchdog reset)	01.11
04	Base + 04	Startup (brown out detect reset)	01.11
05	Base + 05	Startup (with default jumper)	01.11
06	Base + 06	Zero point check	01.15
07	Base + 07	Reference point check	01.15
08	Base + 08	Simulation / Function test	01.15
09	Base + 09	Maintenance	01.15
10	Base + 10	Paramter modification stored	01.15
11	Base + 11	-	
12	Base + 12	-	
13	Base + 13	-	
14	Base + 14	-	
15	Base + 15	-	
16	Base + 16	-	
17	Base + 17	-	
18	Base + 18	-	
19	Base + 19	-	
20	Base + 20	-	
21	Base + 21	-	
22	Base + 22	-	
23	Base + 23	-	
24	Base + 24	-	
25	Base + 25	-	
26	Base + 26	-	
27	Base + 27	-	
28	Base + 28	-	
29	Base + 29	-	
30	Base + 30	-	
31	Base + 31	-	
32	Base + 32	-	
33	Base + 33	-	
34	Base + 34	-	
35	Base + 35	-	
36	Base + 36	-	
37	Base + 37	-	
38	Base + 38	-	
39	Base + 39	-	
40	Base + 40	-	
41	Base + 41	-	
42	Base + 42	-	
43	Base + 43	-	
44	Base + 44	-	
45	Base + 45	-	
46	Base + 46	-	
47	Base + 47	-	
48	Base + 48	-	
49	Base + 49	-	
50	Base + 50	-	
51	Base + 51	-	
52	Base + 52	-	
53	Base + 53	-	
54	Base + 54	-	
55	Base + 55	-	
56	Base + 56	-	
57	Base + 57	-	
58	Base + 58	-	
59	Base + 59	-	
60	Base + 60	-	
61	Base + 61	-	
62	Base + 62	-	
63	Base + 63	-	

D-ISC 100: D-FL 220 Messages

Warnings			
Bit	Coil address	Description	PRS
00	Base + 00	Measuring value 1: upper limit value 1 active	01.00
01	Base + 01	Measuring value 1: lower limit value 1 active	01.00
02	Base + 02	Measuring value 1: upper limit value 2 active	01.00
03	Base + 03	Measuring value 1: lower limit value 2 active	01.00
04	Base + 04	Measuring value 2: upper limit value 1 active	01.00
05	Base + 05	Measuring value 2: lower limit value 1 active	01.00
06	Base + 06	Measuring value 2: upper limit value 2 active	01.00
07	Base + 07	Measuring value 2: lower limit value 2 active	01.00
08	Base + 08	Measuring value 3: upper limit value 1 active	01.00
09	Base + 09	Measuring value 3: lower limit value 1 active	01.00
10	Base + 10	Measuring value 3: upper limit value 2 active	01.00
11	Base + 11	Measuring value 3: lower limit value 2 active	01.00
12	Base + 12	Measuring value 4: upper limit value 1 active	01.00
13	Base + 13	Measuring value 4: lower limit value 1 active	01.00
14	Base + 14	Measuring value 4: upper limit value 2 active	01.00
15	Base + 15	Measuring value 4: lower limit value 2 active	01.00
16	Base + 16	Sensor A: Signal to noise ratio (SNR) critical	01.00
17	Base + 17	Sensor B: Signal to noise ratio (SNR) critical	01.00
18	Base + 18	Sensor A: Signal amplitude critical	01.15
19	Base + 19	Sensor B: Signal amplitude critical	01.15
20	Base + 20	Selftest detected failure	01.15
21	Base + 21	Startup detected failure	01.15
22	Base + 22	Sensor A: RTC fault [STUP]	01.15
23	Base + 23	Sensor B: RTC fault [STUP]	01.15
24	Base + 24	Sensor A: internal temperature measurement fault [ST]	01.15
25	Base + 25	Sensor B: internal temperature measurement fault [ST]	01.15
26	Base + 26	Sensor A: transducer temperature measurement fault [ST]	01.15
27	Base + 27	Sensor B: transducer temperature measurement fault [ST]	01.15
28	Base + 28	Sensor A: max. internal temperature exceeded	01.15
29	Base + 29	Sensor B: max. internal temperature exceeded	01.15
30	Base + 30	Sensor A: max. transducer temperature exceeded	01.15
31	Base + 31	Sensor B: max. transducer temperature exceeded	01.15
32	Base + 32	Assembly parameter inconsistent	01.15
33	Base + 33	Startup with factory defaults	01.15
34	Base + 34	Sensor A: Transducer power critical	01.16
35	Base + 35	Sensor B: Transducer power critical	01.16
36	Base + 36	Sensor A: Ultrasonic transmit/receive unit faulty	01.16
37	Base + 37	Sensor B: Ultrasonic transmit/receive unit faulty	01.16
38	Base + 38	-	
39	Base + 39	-	
40	Base + 40	-	
41	Base + 41	-	
42	Base + 42	-	
43	Base + 43	-	
44	Base + 44	-	
45	Base + 45	-	
46	Base + 46	-	
47	Base + 47	-	
48	Base + 48	-	
49	Base + 49	-	
50	Base + 50	-	
51	Base + 51	-	
52	Base + 52	-	
53	Base + 53	-	
54	Base + 54	-	
55	Base + 55	-	
56	Base + 56	-	
57	Base + 57	-	
58	Base + 58	-	
59	Base + 59	-	
60	Base + 60	-	
61	Base + 61	-	
62	Base + 62	-	
63	Base + 63	-	

D-ISC 100: D-FL 220 Messages

Simple errors			
Bit	Coil address	Description	PRS
00	Base + 00	Data connection sensor A-B disconnected	01.15
01	Base + 01	Ultrasonic measuring path faulty	01.15
02	Base + 02	EEProm Checksum invalid	01.15
03	Base + 03	-	
04	Base + 04	-	
05	Base + 05	-	
06	Base + 06	-	
07	Base + 07	-	
08	Base + 08	-	
09	Base + 09	-	
10	Base + 10	-	
11	Base + 11	-	
12	Base + 12	-	
13	Base + 13	-	
14	Base + 14	-	
15	Base + 15	-	
16	Base + 16	-	
17	Base + 17	-	
18	Base + 18	-	
19	Base + 19	-	
20	Base + 20	-	
21	Base + 21	-	
22	Base + 22	-	
23	Base + 23	-	
24	Base + 24	-	
25	Base + 25	-	
26	Base + 26	-	
27	Base + 27	-	
28	Base + 28	-	
29	Base + 29	-	
30	Base + 30	-	
31	Base + 31	-	
32	Base + 32	-	
33	Base + 33	-	
34	Base + 34	-	
35	Base + 35	-	
36	Base + 36	-	
37	Base + 37	-	
38	Base + 38	-	
39	Base + 39	-	
40	Base + 40	-	
41	Base + 41	-	
42	Base + 42	-	
43	Base + 43	-	
44	Base + 44	-	
45	Base + 45	-	
46	Base + 46	-	
47	Base + 47	-	
48	Base + 48	-	
49	Base + 49	-	
50	Base + 50	-	
51	Base + 51	-	
52	Base + 52	-	
53	Base + 53	-	
54	Base + 54	-	
55	Base + 55	-	
56	Base + 56	-	
57	Base + 57	-	
58	Base + 58	-	
59	Base + 59	-	
60	Base + 60	-	
61	Base + 61	-	
62	Base + 62	-	
63	Base + 63	-	

D-ISC 100: D-FL 220 Messages

Critical errors			
Bit	Coil address	Description	PRS
00	Base + 00	Firmware Revisionen Sensor A-B incompatible	01.15
01	Base + 01	Sensor A: RAM error [STUP]	01.15
02	Base + 02	Sensor B: RAM error [STUP]	01.15
03	Base + 03	Sensor A: EEPROM error [STUP]	01.15
04	Base + 04	Sensor B: EEPROM error [STUP]	01.15
05	Base + 05	Sensor A: FPGA software load error [STUP]	01.15
06	Base + 06	Sensor B: FPGA software load error [STUP]	01.15
07	Base + 07	Sensor A: Transducer faulty [ST]	01.15
08	Base + 08	Sensor B: Transducer faulty [ST]	01.15
09	Base + 09	-	
10	Base + 10	-	
11	Base + 11	-	
12	Base + 12	-	
13	Base + 13	-	
14	Base + 14	-	
15	Base + 15	-	
16	Base + 16	-	
17	Base + 17	-	
18	Base + 18	-	
19	Base + 19	-	
20	Base + 20	-	
21	Base + 21	-	
22	Base + 22	-	
23	Base + 23	-	
24	Base + 24	-	
25	Base + 25	-	
26	Base + 26	-	
27	Base + 27	-	
28	Base + 28	-	
29	Base + 29	-	
30	Base + 30	-	
31	Base + 31	-	
32	Base + 32	-	
33	Base + 33	-	
34	Base + 34	-	
35	Base + 35	-	
36	Base + 36	-	
37	Base + 37	-	
38	Base + 38	-	
39	Base + 39	-	
40	Base + 40	-	
41	Base + 41	-	
42	Base + 42	-	
43	Base + 43	-	
44	Base + 44	-	
45	Base + 45	-	
46	Base + 46	-	
47	Base + 47	-	
48	Base + 48	-	
49	Base + 49	-	
50	Base + 50	-	
51	Base + 51	-	
52	Base + 52	-	
53	Base + 53	-	
54	Base + 54	-	
55	Base + 55	-	
56	Base + 56	-	
57	Base + 57	-	
58	Base + 58	-	
59	Base + 59	-	
60	Base + 60	-	
61	Base + 61	-	
62	Base + 62	-	
63	Base + 63	-	

D-ISC 100: D-R 220 Messages

Information			
Bit	Coil address	Description	PRS
00	Base + 00	-	
01	Base + 01	Startup (power on)	1.01
02	Base + 02	Path length calibration	1.01
03	Base + 03	-	
04	Base + 04	-	
05	Base + 05	-	
06	Base + 06	-	
07	Base + 07	-	
08	Base + 08	-	
09	Base + 09	-	
10	Base + 10	-	
11	Base + 11	-	
12	Base + 12	-	
13	Base + 13	-	
14	Base + 14	-	
15	Base + 15	-	
16	Base + 16	-	
17	Base + 17	-	
18	Base + 18	-	
19	Base + 19	-	
20	Base + 20	-	
21	Base + 21	-	
22	Base + 22	-	
23	Base + 23	-	
24	Base + 24	-	
25	Base + 25	-	
26	Base + 26	-	
27	Base + 27	-	
28	Base + 28	-	
29	Base + 29	-	
30	Base + 30	-	
31	Base + 31	Reset message counter	1.01
32	Base + 32	Clear message log	1.01
33	Base + 33	Shut down (power off)	1.01
34	Base + 34	Write parameter to EEPROM	1.01
35	Base + 35	Change DIL switch settings	1.01
36	Base + 36	-	
37	Base + 37	-	
38	Base + 38	-	
39	Base + 39	-	
40	Base + 40	-	
41	Base + 41	-	
42	Base + 42	-	
43	Base + 43	-	
44	Base + 44	-	
45	Base + 45	-	
46	Base + 46	-	
47	Base + 47	-	
48	Base + 48	-	
49	Base + 49	-	
50	Base + 50	-	
51	Base + 51	-	
52	Base + 52	-	
53	Base + 53	-	
54	Base + 54	-	
55	Base + 55	-	
56	Base + 56	-	
57	Base + 57	-	
58	Base + 58	-	
59	Base + 59	-	
60	Base + 60	-	
61	Base + 61	-	
62	Base + 62	-	
63	Base + 63	-	

D-ISC 100: D-R 220 Messages

Warnings			
Bit	Coil address	Description	PRS
00	Base + 00	-	
01	Base + 01	-	
02	Base + 02	-	
03	Base + 03	-	
04	Base + 04	-	
05	Base + 05	-	
06	Base + 06	-	
07	Base + 07	-	
08	Base + 08	-	
09	Base + 09	-	
10	Base + 10	-	
11	Base + 11	-	
12	Base + 12	-	
13	Base + 13	-	
14	Base + 14	-	
15	Base + 15	-	
16	Base + 16	-	
17	Base + 17	-	
18	Base + 18	-	
19	Base + 19	-	
20	Base + 20	-	
21	Base + 21	-	
22	Base + 22	-	
23	Base + 23	-	
24	Base + 24	-	
25	Base + 25	-	
26	Base + 26	-	
27	Base + 27	-	
28	Base + 28	-	
29	Base + 29	-	
30	Base + 30	-	
31	Base + 31	-	
32	Base + 32	-	
33	Base + 33	-	
34	Base + 34	-	
35	Base + 35	-	
36	Base + 36	-	
37	Base + 37	-	
38	Base + 38	-	
39	Base + 39	-	
40	Base + 40	-	
41	Base + 41	-	
42	Base + 42	-	
43	Base + 43	-	
44	Base + 44	-	
45	Base + 45	-	
46	Base + 46	-	
47	Base + 47	-	
48	Base + 48	-	
49	Base + 49	-	
50	Base + 50	-	
51	Base + 51	-	
52	Base + 52	-	
53	Base + 53	-	
54	Base + 54	-	
55	Base + 55	-	
56	Base + 56	-	
57	Base + 57	-	
58	Base + 58	-	
59	Base + 59	-	
60	Base + 60	-	
61	Base + 61	-	
62	Base + 62	-	
63	Base + 63	-	

D-ISC 100: D-R 220 Messages

Simple errors			
Bit	Coil address	Description	PRS
00	Base + 00	-	
01	Base + 01	-	
02	Base + 02	-	
03	Base + 03	-	
04	Base + 04	-	
05	Base + 05	-	
06	Base + 06	-	
07	Base + 07	-	
08	Base + 08	-	
09	Base + 09	-	
10	Base + 10	-	
11	Base + 11	-	
12	Base + 12	-	
13	Base + 13	-	
14	Base + 14	-	
15	Base + 15	-	
16	Base + 16	-	
17	Base + 17	-	
18	Base + 18	-	
19	Base + 19	-	
20	Base + 20	-	
21	Base + 21	-	
22	Base + 22	-	
23	Base + 23	-	
24	Base + 24	-	
25	Base + 25	-	
26	Base + 26	-	
27	Base + 27	-	
28	Base + 28	-	
29	Base + 29	-	
30	Base + 30	-	
31	Base + 31	-	
32	Base + 32	-	
33	Base + 33	-	
34	Base + 34	-	
35	Base + 35	-	
36	Base + 36	-	
37	Base + 37	-	
38	Base + 38	-	
39	Base + 39	-	
40	Base + 40	-	
41	Base + 41	-	
42	Base + 42	-	
43	Base + 43	-	
44	Base + 44	-	
45	Base + 45	-	
46	Base + 46	-	
47	Base + 47	-	
48	Base + 48	-	
49	Base + 49	-	
50	Base + 50	-	
51	Base + 51	-	
52	Base + 52	-	
53	Base + 53	-	
54	Base + 54	-	
55	Base + 55	-	
56	Base + 56	-	
57	Base + 57	-	
58	Base + 58	-	
59	Base + 59	-	
60	Base + 60	-	
61	Base + 61	-	
62	Base + 62	-	
63	Base + 63	-	

D-ISC 100: D-R 220 Messages

Critical errors			
Bit	Coil address	Description	PRS
00	Base + 00	Transmitting LED	1.01
01	Base + 01	Comparison shutter	1.01
02	Base + 02	-	
03	Base + 03	-	
04	Base + 04	-	
05	Base + 05	ADC error	1.01
06	Base + 06	-	
07	Base + 07	EEPROM checksum error	1.01
08	Base + 08	-	
09	Base + 09	Firmware inoperative	1.07
10	Base + 10	-	
11	Base + 11	-	
12	Base + 12	-	
13	Base + 13	-	
14	Base + 14	-	
15	Base + 15	-	
16	Base + 16	-	
17	Base + 17	-	
18	Base + 18	-	
19	Base + 19	-	
20	Base + 20	-	
21	Base + 21	-	
22	Base + 22	-	
23	Base + 23	-	
24	Base + 24	-	
25	Base + 25	-	
26	Base + 26	-	
27	Base + 27	-	
28	Base + 28	-	
29	Base + 29	-	
30	Base + 30	-	
31	Base + 31	-	
32	Base + 32	-	
33	Base + 33	-	
34	Base + 34	-	
35	Base + 35	-	
36	Base + 36	-	
37	Base + 37	-	
38	Base + 38	-	
39	Base + 39	-	
40	Base + 40	-	
41	Base + 41	-	
42	Base + 42	-	
43	Base + 43	-	
44	Base + 44	-	
45	Base + 45	-	
46	Base + 46	-	
47	Base + 47	-	
48	Base + 48	-	
49	Base + 49	-	
50	Base + 50	-	
51	Base + 51	-	
52	Base + 52	-	
53	Base + 53	-	
54	Base + 54	-	
55	Base + 55	-	
56	Base + 56	-	
57	Base + 57	-	
58	Base + 58	-	
59	Base + 59	-	
60	Base + 60	-	
61	Base + 61	-	
62	Base + 62	-	
63	Base + 63	-	

D-ISC 100: D-R 220 M xx2 Messages

Information			
Bit	Coil address	Description	PRS
00	Base + 00	-	
01	Base + 01	Startup (power on) [001]	02.00
02	Base + 02	Startup (extern reset) [002]	02.00
03	Base + 03	Startup (watchdog reset) [003]	02.00
04	Base + 04	Startup (bod reset) [004]	02.00
05	Base + 05	-	
06	Base + 06	Zero point check running [006]	02.00
07	Base + 07	Reference point check running [007]	02.00
08	Base + 08	Contamination check running [008]	02.00
09	Base + 09	Parameter modification stored [009]	02.00
10	Base + 10	Message log cleared [010]	02.00
11	Base + 11	Message counter cleared [011]	02.00
12	Base + 12	-	
13	Base + 13	-	
14	Base + 14	-	
15	Base + 15	-	
16	Base + 16	-	
17	Base + 17	-	
18	Base + 18	Dust-free path measurement running [018]	02.00
19	Base + 19	Contamination check running (DIP switch 8 active) [019]	02.00
20	Base + 20	-	
21	Base + 21	-	
22	Base + 22	Simulation / function test running [022]	02.00
23	Base + 23	Device in maintenance mode [023]	02.00
24	Base + 24	-	
25	Base + 25	-	
26	Base + 26	-	
27	Base + 27	-	
28	Base + 28	-	
29	Base + 29	-	
30	Base + 30	-	
31	Base + 31	-	
32	Base + 32	-	
33	Base + 33	-	
34	Base + 34	-	
35	Base + 35	-	
36	Base + 36	-	
37	Base + 37	-	
38	Base + 38	-	
39	Base + 39	-	
40	Base + 40	-	
41	Base + 41	-	
42	Base + 42	-	
43	Base + 43	-	
44	Base + 44	-	
45	Base + 45	-	
46	Base + 46	-	
47	Base + 47	-	
48	Base + 48	-	
49	Base + 49	-	
50	Base + 50	-	
51	Base + 51	-	
52	Base + 52	-	
53	Base + 53	-	
54	Base + 54	-	
55	Base + 55	-	
56	Base + 56	-	
57	Base + 57	-	
58	Base + 58	-	
59	Base + 59	-	
60	Base + 60	-	
61	Base + 61	-	
62	Base + 62	-	
63	Base + 63	-	

D-ISC 100: D-R 220 M xx2 Messages

Warnings			
Bit	Coil address	Description	PRS
00	Base + 00	Measuring value 1: upper limit value 1 active [064]	02.00
01	Base + 01	Measuring value 1: lower limit value 1 active [065]	02.00
02	Base + 02	Measuring value 1: upper limit value 2 active [066]	02.00
03	Base + 03	Measuring value 1: lower limit value 2 active [067]	02.00
04	Base + 04	Measuring value 2: upper limit value 1 active [068]	02.00
05	Base + 05	Measuring value 2: lower limit value 1 active [069]	02.00
06	Base + 06	Measuring value 2: upper limit value 2 active [070]	02.00
07	Base + 07	Measuring value 2: lower limit value 2 active [071]	02.00
08	Base + 08	Measuring value 3: upper limit value 1 active [072]	02.00
09	Base + 09	Measuring value 3: lower limit value 1 active [073]	02.00
10	Base + 10	Measuring value 3: upper limit value 2 active [074]	02.00
11	Base + 11	Measuring value 3: lower limit value 2 active [075]	02.00
12	Base + 12	Measuring value 4: upper limit value 1 active [076]	02.00
13	Base + 13	Measuring value 4: lower limit value 1 active [077]	02.00
14	Base + 14	Measuring value 4: upper limit value 2 active [078]	02.00
15	Base + 15	Measuring value 4: lower limit value 2 active [079]	02.00
16	Base + 16	Battery low [080]	02.00
17	Base + 17	Clock not set [081]	02.00
18	Base + 18	-	
19	Base + 19	-	
20	Base + 20	-	
21	Base + 21	-	
22	Base + 22	-	
23	Base + 23	-	
24	Base + 24	-	
25	Base + 25	-	
26	Base + 26	-	
27	Base + 27	-	
28	Base + 28	-	
29	Base + 29	-	
30	Base + 30	-	
31	Base + 31	-	
32	Base + 32	-	
33	Base + 33	-	
34	Base + 34	-	
35	Base + 35	-	
36	Base + 36	-	
37	Base + 37	-	
38	Base + 38	-	
39	Base + 39	-	
40	Base + 40	-	
41	Base + 41	-	
42	Base + 42	-	
43	Base + 43	-	
44	Base + 44	-	
45	Base + 45	-	
46	Base + 46	-	
47	Base + 47	-	
48	Base + 48	-	
49	Base + 49	-	
50	Base + 50	-	
51	Base + 51	-	
52	Base + 52	-	
53	Base + 53	-	
54	Base + 54	-	
55	Base + 55	-	
56	Base + 56	-	
57	Base + 57	-	
58	Base + 58	-	
59	Base + 59	-	
60	Base + 60	-	
61	Base + 61	-	
62	Base + 62	-	
63	Base + 63	-	

D-ISC 100: D-R 220 M xx2 Messages

Simple errors			
Bit	Coil address	Description	PRS
00	Base + 00	System parameter inoperative [128]	02.00
01	Base + 01	Firmware inoperative [129]	02.00
02	Base + 02	-	
03	Base + 03	-	
04	Base + 04	-	
05	Base + 05	-	
06	Base + 06	-	
07	Base + 07	-	
08	Base + 08	-	
09	Base + 09	-	
10	Base + 10	-	
11	Base + 11	-	
12	Base + 12	-	
13	Base + 13	-	
14	Base + 14	-	
15	Base + 15	-	
16	Base + 16	-	
17	Base + 17	-	
18	Base + 18	-	
19	Base + 19	-	
20	Base + 20	-	
21	Base + 21	-	
22	Base + 22	-	
23	Base + 23	-	
24	Base + 24	-	
25	Base + 25	-	
26	Base + 26	-	
27	Base + 27	-	
28	Base + 28	-	
29	Base + 29	-	
30	Base + 30	-	
31	Base + 31	-	
32	Base + 32	-	
33	Base + 33	-	
34	Base + 34	-	
35	Base + 35	-	
36	Base + 36	-	
37	Base + 37	-	
38	Base + 38	-	
39	Base + 39	-	
40	Base + 40	-	
41	Base + 41	-	
42	Base + 42	-	
43	Base + 43	-	
44	Base + 44	-	
45	Base + 45	-	
46	Base + 46	-	
47	Base + 47	-	
48	Base + 48	-	
49	Base + 49	-	
50	Base + 50	-	
51	Base + 51	-	
52	Base + 52	-	
53	Base + 53	-	
54	Base + 54	-	
55	Base + 55	-	
56	Base + 56	-	
57	Base + 57	-	
58	Base + 58	-	
59	Base + 59	-	
60	Base + 60	-	
61	Base + 61	-	
62	Base + 62	-	
63	Base + 63	-	

D-ISC 100: D-R 220 M xx2 Messages

Critical errors			
Bit	Coil address	Description	PRS
00	Base + 00	Hardware fault [192]	02.00
01	Base + 01	Hardware fault [193]	02.00
02	Base + 02	Hardware fault [194]	02.00
03	Base + 03	-	
04	Base + 04	-	
05	Base + 05	-	
06	Base + 06	-	
07	Base + 07	-	
08	Base + 08	-	
09	Base + 09	-	
10	Base + 10	-	
11	Base + 11	-	
12	Base + 12	-	
13	Base + 13	-	
14	Base + 14	-	
15	Base + 15	-	
16	Base + 16	-	
17	Base + 17	-	
18	Base + 18	-	
19	Base + 19	-	
20	Base + 20	-	
21	Base + 21	-	
22	Base + 22	-	
23	Base + 23	-	
24	Base + 24	-	
25	Base + 25	-	
26	Base + 26	-	
27	Base + 27	-	
28	Base + 28	-	
29	Base + 29	-	
30	Base + 30	-	
31	Base + 31	-	
32	Base + 32	-	
33	Base + 33	-	
34	Base + 34	-	
35	Base + 35	-	
36	Base + 36	-	
37	Base + 37	-	
38	Base + 38	-	
39	Base + 39	-	
40	Base + 40	-	
41	Base + 41	-	
42	Base + 42	-	
43	Base + 43	-	
44	Base + 44	-	
45	Base + 45	-	
46	Base + 46	-	
47	Base + 47	-	
48	Base + 48	-	
49	Base + 49	-	
50	Base + 50	-	
51	Base + 51	-	
52	Base + 52	-	
53	Base + 53	-	
54	Base + 54	-	
55	Base + 55	-	
56	Base + 56	-	
57	Base + 57	-	
58	Base + 58	-	
59	Base + 59	-	
60	Base + 60	-	
61	Base + 61	-	
62	Base + 62	-	
63	Base + 63	-	

D-ISC 100: D-R 290 M xx2 Messages

Information			
Bit	Coil address	Description	PRS
00	Base + 00	-	
01	Base + 01	Startup (power on) [001]	01.00
02	Base + 02	Startup (extern reset) [002]	01.00
03	Base + 03	Startup (watchdog reset) [003]	01.00
04	Base + 04	Startup (bod reset) [004]	01.00
05	Base + 05	Startup (with default jumper) [005]	01.00
06	Base + 06	Zero point check running [006]	01.00
07	Base + 07	Reference point check running [007]	01.00
08	Base + 08	Contamination check running [008]	01.00
09	Base + 09	Parameter modification stored [009]	01.00
10	Base + 10	Message log has been cleared [010]	01.00
11	Base + 11	Message counter has been cleared [011]	01.00
12	Base + 12	System is in startup mode [012]	01.00
13	Base + 13	Linearity check running [013]	01.00
14	Base + 14	LED comparison check running [014]	01.00
15	Base + 15	Initial contamination check running [015]	01.00
16	Base + 16	Initial LED comparison check running [016]	01.00
17	Base + 17	Initial reference check running [017]	01.00
18	Base + 18	Dust-free path measurement running [018]	01.00
19	Base + 19	Offset measurement running [019]	01.00
20	Base + 20	Device performs a fail safe shutter test [020]	01.00
21	Base + 21	Device performs a fail safe shutter test [021]	01.00
22	Base + 22	Simulation / Function test running [022]	01.00
23	Base + 23	Device in maintenance mode [023]	01.00
24	Base + 24	Stack factor output [024]	01.00
25	Base + 25	-	
26	Base + 26	-	
27	Base + 27	-	
28	Base + 28	-	
29	Base + 29	-	
30	Base + 30	-	
31	Base + 31	-	
32	Base + 32	-	
33	Base + 33	-	
34	Base + 34	-	
35	Base + 35	-	
36	Base + 36	-	
37	Base + 37	-	
38	Base + 38	-	
39	Base + 39	-	
40	Base + 40	-	
41	Base + 41	-	
42	Base + 42	-	
43	Base + 43	-	
44	Base + 44	-	
45	Base + 45	-	
46	Base + 46	-	
47	Base + 47	-	
48	Base + 48	-	
49	Base + 49	-	
50	Base + 50	-	
51	Base + 51	-	
52	Base + 52	-	
53	Base + 53	-	
54	Base + 54	-	
55	Base + 55	-	
56	Base + 56	-	
57	Base + 57	-	
58	Base + 58	-	
59	Base + 59	-	
60	Base + 60	-	
61	Base + 61	-	
62	Base + 62	-	
63	Base + 63	-	

D-ISC 100: D-R 290 M xx2 Messages

Warnings			
Bit	Coil address	Description	PRS
00	Base + 00	Measuring value 1: upper limit value 1 active [064]	01.00
01	Base + 01	Measuring value 1: lower limit value 1 active [065]	01.00
02	Base + 02	Measuring value 1: upper limit value 2 active [066]	01.00
03	Base + 03	Measuring value 1: lower limit value 2 active [067]	01.00
04	Base + 04	Measuring value 2: upper limit value 1 active [068]	01.00
05	Base + 05	Measuring value 2: lower limit value 1 active [069]	01.00
06	Base + 06	Measuring value 2: upper limit value 2 active [070]	01.00
07	Base + 07	Measuring value 2: lower limit value 2 active [071]	01.00
08	Base + 08	Measuring value 3: upper limit value 1 active [072]	01.00
09	Base + 09	Measuring value 3: lower limit value 1 active [073]	01.00
10	Base + 10	Measuring value 3: upper limit value 2 active [074]	01.00
11	Base + 11	Measuring value 3: lower limit value 2 active [075]	01.00
12	Base + 12	Measuring value 4: upper limit value 1 active [076]	01.00
13	Base + 13	Measuring value 4: lower limit value 1 active [077]	01.00
14	Base + 14	Measuring value 4: upper limit value 2 active [078]	01.00
15	Base + 15	Measuring value 4: lower limit value 2 active [079]	01.00
16	Base + 16	-	
17	Base + 17	Clock not set [081]	01.00
18	Base + 18	Device temperature too high [082]	01.00
19	Base + 19	Device temperature too low [083]	01.00
20	Base + 20	Initial contamination measurement not possible [084]	01.00
21	Base + 21	Initial reference measurement not possible [085]	01.00
22	Base + 22	Dust-free path measurement not possible [086]	01.00
23	Base + 23	LED degraded [087]	01.00
24	Base + 24	Internal temperature measurement fault [088]	01.00
25	Base + 25	LED temperature measurement fault [089]	01.00
26	Base + 26	Stepper motor temperature measurement fault [090]	01.00
27	Base + 27	Contamination warning [091]	01.00
28	Base + 28	Purge air flow 1 (measuring head) too low [092]	01.00
29	Base + 29	Purge air flow 2 (reflector) too low [093]	01.00
30	Base + 30	Purge air flow 1 (measuring head) too high [094]	01.00
31	Base + 31	Purge air flow 2 (reflector) too high [095]	01.00
32	Base + 32	LED heater inoperable [096]	01.00
33	Base + 33	Stepper heater inoperable [097]	01.00
34	Base + 34	Window heater inoperable [098]	01.00
35	Base + 35	-	
36	Base + 36	-	
37	Base + 37	-	
38	Base + 38	-	
39	Base + 39	-	
40	Base + 40	-	
41	Base + 41	-	
42	Base + 42	-	
43	Base + 43	-	
44	Base + 44	-	
45	Base + 45	-	
46	Base + 46	-	
47	Base + 47	-	
48	Base + 48	-	
49	Base + 49	-	
50	Base + 50	-	
51	Base + 51	-	
52	Base + 52	-	
53	Base + 53	-	
54	Base + 54	-	
55	Base + 55	-	
56	Base + 56	-	
57	Base + 57	-	
58	Base + 58	-	
59	Base + 59	-	
60	Base + 60	-	
61	Base + 61	-	
62	Base + 62	-	
63	Base + 63	-	

D-ISC 100: D-R 290 M xx2 Messages

Simple errors			
Bit	Coil address	Description	PRS
00	Base + 00	System settings inoperative [128]	01.00
01	Base + 01	Firmware inoperative [129]	01.00
02	Base + 02	Device not initialized [130]	01.00
03	Base + 03	Receiver overflow [131]	01.00
04	Base + 04	Receiver overflow [132]	01.00
05	Base + 05	Receiver overflow [133]	01.00
06	Base + 06	Receiver overflow [134]	01.00
07	Base + 07	Contamination error [135]	01.00
08	Base + 08	LED under temperature shut down [136]	01.00
09	Base + 09	LED over temperature shut down [137]	01.00
10	Base + 10	Stepper motor under temperature shut down [138]	01.00
11	Base + 11	Stepper motor over temperature shut down [139]	01.00
12	Base + 12	Stepper motor fault [140]	01.00
13	Base + 13	Stepper motor fault [141]	01.00
14	Base + 14	Purge air flow 1 (measuring head) too low [142]	01.00
15	Base + 15	Purge air flow 2 (reflector) too low [143]	01.00
16	Base + 16	Fail safe shutter 1 closed [144]	01.00
17	Base + 17	Fail safe shutter 2 closed [145]	01.00
18	Base + 18	-	
19	Base + 19	-	
20	Base + 20	-	
21	Base + 21	-	
22	Base + 22	-	
23	Base + 23	-	
24	Base + 24	-	
25	Base + 25	-	
26	Base + 26	-	
27	Base + 27	-	
28	Base + 28	-	
29	Base + 29	-	
30	Base + 30	-	
31	Base + 31	-	
32	Base + 32	-	
33	Base + 33	-	
34	Base + 34	-	
35	Base + 35	-	
36	Base + 36	-	
37	Base + 37	-	
38	Base + 38	-	
39	Base + 39	-	
40	Base + 40	-	
41	Base + 41	-	
42	Base + 42	-	
43	Base + 43	-	
44	Base + 44	-	
45	Base + 45	-	
46	Base + 46	-	
47	Base + 47	-	
48	Base + 48	-	
49	Base + 49	-	
50	Base + 50	-	
51	Base + 51	-	
52	Base + 52	-	
53	Base + 53	-	
54	Base + 54	-	
55	Base + 55	-	
56	Base + 56	-	
57	Base + 57	-	
58	Base + 58	-	
59	Base + 59	-	
60	Base + 60	-	
61	Base + 61	-	
62	Base + 62	-	
63	Base + 63	-	

D-ISC 100: D-R 290 M xx2 Messages

Critical errors			
Bit	Coil address	Description	PRS
00	Base + 00	Hardware fault [192]	01.00
01	Base + 01	Hardware fault [193]	01.00
02	Base + 02	Hardware fault [194]	01.00
03	Base + 03	Zero point reflector position error [195]	01.00
04	Base + 04	Rotary plate position error [196]	01.00
05	Base + 05	LED current too low [197]	01.00
06	Base + 06	LED current too high [198]	01.00
07	Base + 07	Fail safe shutter 1 error [199]	01.00
08	Base + 08	Fail safe shutter 2 error [200]	01.00
09	Base + 09	Fail safe shutter 1 blocked [201]	01.00
10	Base + 10	Fail safe shutter 2 blocked [202]	01.00
11	Base + 11	-	
12	Base + 12	-	
13	Base + 13	-	
14	Base + 14	-	
15	Base + 15	-	
16	Base + 16	-	
17	Base + 17	-	
18	Base + 18	-	
19	Base + 19	-	
20	Base + 20	-	
21	Base + 21	-	
22	Base + 22	-	
23	Base + 23	-	
24	Base + 24	-	
25	Base + 25	-	
26	Base + 26	-	
27	Base + 27	-	
28	Base + 28	-	
29	Base + 29	-	
30	Base + 30	-	
31	Base + 31	-	
32	Base + 32	-	
33	Base + 33	-	
34	Base + 34	-	
35	Base + 35	-	
36	Base + 36	-	
37	Base + 37	-	
38	Base + 38	-	
39	Base + 39	-	
40	Base + 40	-	
41	Base + 41	-	
42	Base + 42	-	
43	Base + 43	-	
44	Base + 44	-	
45	Base + 45	-	
46	Base + 46	-	
47	Base + 47	-	
48	Base + 48	-	
49	Base + 49	-	
50	Base + 50	-	
51	Base + 51	-	
52	Base + 52	-	
53	Base + 53	-	
54	Base + 54	-	
55	Base + 55	-	
56	Base + 56	-	
57	Base + 57	-	
58	Base + 58	-	
59	Base + 59	-	
60	Base + 60	-	
61	Base + 61	-	
62	Base + 62	-	
63	Base + 63	-	

D-ISC 100: D-R 320 Messages

Information			
Bit	Coil address	Description	PRS
00	Base + 00	-	
01	Base + 01	Startup [001]	01.00
02	Base + 02	Startup (extern reset) [002]	01.00
03	Base + 03	Startup (watchdog reset) [003]	01.00
04	Base + 04	Startup (brown out detect reset) [004]	01.00
05	Base + 05	Startup (with default jumper) [005]	01.00
06	Base + 06	Zero point check [006]	01.00
07	Base + 07	Reference point check [007]	01.00
08	Base + 08	Contamination check [008]	01.00
09	Base + 09	Parameter modification stored [009]	01.00
10	Base + 10	Message log has been cleared [010]	01.00
11	Base + 11	Message counter has been cleared [011]	01.00
12	Base + 12	System is in startup mode [012]	01.00
13	Base + 13	Linearity check [013]	01.00
14	Base + 14	Device performs a fail safe shutter test [014]	01.00
15	Base + 15	Simulation / Function test [015]	01.00
16	Base + 16	Device in maintenance mode [016]	01.00
17	Base + 17	-	
18	Base + 18	-	
19	Base + 19	-	
20	Base + 20	-	
21	Base + 21	-	
22	Base + 22	-	
23	Base + 23	-	
24	Base + 24	-	
25	Base + 25	-	
26	Base + 26	-	
27	Base + 27	-	
28	Base + 28	-	
29	Base + 29	-	
30	Base + 30	-	
31	Base + 31	-	
32	Base + 32	-	
33	Base + 33	-	
34	Base + 34	-	
35	Base + 35	-	
36	Base + 36	-	
37	Base + 37	-	
38	Base + 38	-	
39	Base + 39	-	
40	Base + 40	-	
41	Base + 41	-	
42	Base + 42	-	
43	Base + 43	-	
44	Base + 44	-	
45	Base + 45	-	
46	Base + 46	-	
47	Base + 47	-	
48	Base + 48	-	
49	Base + 49	-	
50	Base + 50	-	
51	Base + 51	-	
52	Base + 52	-	
53	Base + 53	-	
54	Base + 54	-	
55	Base + 55	-	
56	Base + 56	-	
57	Base + 57	-	
58	Base + 58	-	
59	Base + 59	-	
60	Base + 60	-	
61	Base + 61	-	
62	Base + 62	-	
63	Base + 63	-	

D-ISC 100: D-R 320 Messages

Warnings			
Bit	Coil address	Description	PRS
00	Base + 00	Measuring value 1: upper limit value 1 active [064]	01.00
01	Base + 01	Measuring value 1: lower limit value 1 active [065]	01.00
02	Base + 02	Measuring value 1: upper limit value 2 active [066]	01.00
03	Base + 03	Measuring value 1: lower limit value 2 active [067]	01.00
04	Base + 04	Measuring value 2: upper limit value 1 active [068]	01.00
05	Base + 05	Measuring value 2: lower limit value 1 active [069]	01.00
06	Base + 06	Measuring value 2: upper limit value 2 active [070]	01.00
07	Base + 07	Measuring value 2: lower limit value 2 active [071]	01.00
08	Base + 08	Measuring value 3: upper limit value 1 active [072]	01.00
09	Base + 09	Measuring value 3: lower limit value 1 active [073]	01.00
10	Base + 10	Measuring value 3: upper limit value 2 active [074]	01.00
11	Base + 11	Measuring value 3: lower limit value 2 active [075]	01.00
12	Base + 12	Measuring value 4: upper limit value 1 active [076]	01.00
13	Base + 13	Measuring value 4: lower limit value 1 active [077]	01.00
14	Base + 14	Measuring value 4: upper limit value 2 active [078]	01.00
15	Base + 15	Measuring value 4: lower limit value 2 active [079]	01.00
16	Base + 16	-	
17	Base + 17	Clock not set [081]	01.00
18	Base + 18	Device temperature too high [082]	01.00
19	Base + 19	Device temperature too low [083]	01.00
20	Base + 20	Device not initialized [084]	01.00
21	Base + 21	Internal temperature measurement fault [085]	01.00
22	Base + 22	Laser temperature measurement fault [086]	01.00
23	Base + 23	Stepper motor temperature measurement fault [087]	01.00
24	Base + 24	Purge air temperature measurement fault [088]	01.00
25	Base + 25	Contamination > 15% [089]	01.00
26	Base + 26	Purge air flow too low [090]	01.00
27	Base + 27	-	
28	Base + 28	-	
29	Base + 29	-	
30	Base + 30	-	
31	Base + 31	-	
32	Base + 32	-	
33	Base + 33	-	
34	Base + 34	-	
35	Base + 35	-	
36	Base + 36	-	
37	Base + 37	-	
38	Base + 38	-	
39	Base + 39	-	
40	Base + 40	-	
41	Base + 41	-	
42	Base + 42	-	
43	Base + 43	-	
44	Base + 44	-	
45	Base + 45	-	
46	Base + 46	-	
47	Base + 47	-	
48	Base + 48	-	
49	Base + 49	-	
50	Base + 50	-	
51	Base + 51	-	
52	Base + 52	-	
53	Base + 53	-	
54	Base + 54	-	
55	Base + 55	-	
56	Base + 56	-	
57	Base + 57	-	
58	Base + 58	-	
59	Base + 59	-	
60	Base + 60	-	
61	Base + 61	-	
62	Base + 62	-	
63	Base + 63	-	

D-ISC 100: D-R 320 Messages

Simple errors			
Bit	Coil address	Description	PRS
00	Base + 00	System settings inoperative [128]	01.00
01	Base + 01	Firmware inoperative [129]	01.00
02	Base + 02	Ambient light too high [130]	01.00
03	Base + 03	Ambient light too high [131]	01.00
04	Base + 04	Ambient light too high [132]	01.00
05	Base + 05	Ambient light too high [133]	01.00
06	Base + 06	Receiver overflow [134]	01.00
07	Base + 07	Receiver overflow [135]	01.00
08	Base + 08	Receiver overflow [136]	01.00
09	Base + 09	Receiver overflow [137]	01.00
10	Base + 10	Contamination > 30% [138]	01.00
11	Base + 11	Laser under temperature shut down [139]	01.00
12	Base + 12	Laser over temperature shut down [140]	01.00
13	Base + 13	Stepper motor under temperature shut down [141]	01.00
14	Base + 14	Stepper motor over temperature shut down [142]	01.00
15	Base + 15	Stepper motor fault [143]	01.00
16	Base + 16	Fail safe shutter closed [144]	01.00
17	Base + 17	Shuttle calibration not successful [145]	01.00
18	Base + 18	-	
19	Base + 19	-	
20	Base + 20	-	
21	Base + 21	-	
22	Base + 22	-	
23	Base + 23	-	
24	Base + 24	-	
25	Base + 25	-	
26	Base + 26	-	
27	Base + 27	-	
28	Base + 28	-	
29	Base + 29	-	
30	Base + 30	-	
31	Base + 31	-	
32	Base + 32	-	
33	Base + 33	-	
34	Base + 34	-	
35	Base + 35	-	
36	Base + 36	-	
37	Base + 37	-	
38	Base + 38	-	
39	Base + 39	-	
40	Base + 40	-	
41	Base + 41	-	
42	Base + 42	-	
43	Base + 43	-	
44	Base + 44	-	
45	Base + 45	-	
46	Base + 46	-	
47	Base + 47	-	
48	Base + 48	-	
49	Base + 49	-	
50	Base + 50	-	
51	Base + 51	-	
52	Base + 52	-	
53	Base + 53	-	
54	Base + 54	-	
55	Base + 55	-	
56	Base + 56	-	
57	Base + 57	-	
58	Base + 58	-	
59	Base + 59	-	
60	Base + 60	-	
61	Base + 61	-	
62	Base + 62	-	
63	Base + 63	-	

D-ISC 100: D-R 320 Messages

Critical errors			
Bit	Coil address	Description	PRS
00	Base + 00	Hardware fault [192]	01.00
01	Base + 01	Hardware fault [193]	01.00
02	Base + 02	Hardware fault [194]	01.00
03	Base + 03	Shuttle position fault [195]	01.00
04	Base + 04	-	
05	Base + 05	Laser fault [197]	01.00
06	Base + 06	Laser fault [198]	01.00
07	Base + 07	Fail safe shutter error [199]	01.00
08	Base + 08	Fail safe shutter blocked [200]	01.00
09	Base + 09	-	
10	Base + 10	-	
11	Base + 11	-	
12	Base + 12	-	
13	Base + 13	-	
14	Base + 14	-	
15	Base + 15	-	
16	Base + 16	-	
17	Base + 17	-	
18	Base + 18	-	
19	Base + 19	-	
20	Base + 20	-	
21	Base + 21	-	
22	Base + 22	-	
23	Base + 23	-	
24	Base + 24	-	
25	Base + 25	-	
26	Base + 26	-	
27	Base + 27	-	
28	Base + 28	-	
29	Base + 29	-	
30	Base + 30	-	
31	Base + 31	-	
32	Base + 32	-	
33	Base + 33	-	
34	Base + 34	-	
35	Base + 35	-	
36	Base + 36	-	
37	Base + 37	-	
38	Base + 38	-	
39	Base + 39	-	
40	Base + 40	-	
41	Base + 41	-	
42	Base + 42	-	
43	Base + 43	-	
44	Base + 44	-	
45	Base + 45	-	
46	Base + 46	-	
47	Base + 47	-	
48	Base + 48	-	
49	Base + 49	-	
50	Base + 50	-	
51	Base + 51	-	
52	Base + 52	-	
53	Base + 53	-	
54	Base + 54	-	
55	Base + 55	-	
56	Base + 56	-	
57	Base + 57	-	
58	Base + 58	-	
59	Base + 59	-	
60	Base + 60	-	
61	Base + 61	-	
62	Base + 62	-	
63	Base + 63	-	

D-ISC 100: D-R 800 Messages

Information			
Bit	Coil address	Description	PRS
00	Base + 00	-	
01	Base + 01	Zero point measurement (manual)	01.00
02	Base + 02	Pollution measurement (manual)	01.00
03	Base + 03	Reference point measurement (manual)	01.00
04	Base + 04	Zero point measurement	01.00
05	Base + 05	Pollution measurement	01.00
06	Base + 06	Reference point measurement	01.00
07	Base + 07	Control cycle end	01.00
08	Base + 08	Output range 2	01.00
09	Base + 09	Unlocked	01.00
10	Base + 10	I28 Calibration	01.00
11	Base + 11	I27 Test measurement	01.00
12	Base + 12	I26 Adjustment	01.00
13	Base + 13	I25 Simulation	01.00
14	Base + 14	I24 Initialise	01.00
15	Base + 15	I23 Control cycle	01.00
16	Base + 16	I21 Internal maintenance	01.00
17	Base + 17	I20 External maintenance	01.00
18	Base + 18	-	
19	Base + 19	-	
20	Base + 20	-	
21	Base + 21	-	
22	Base + 22	-	
23	Base + 23	-	
24	Base + 24	-	
25	Base + 25	-	
26	Base + 26	-	
27	Base + 27	-	
28	Base + 28	-	
29	Base + 29	-	
30	Base + 30	-	
31	Base + 31	-	
32	Base + 32	-	
33	Base + 33	-	
34	Base + 34	-	
35	Base + 35	-	
36	Base + 36	-	
37	Base + 37	-	
38	Base + 38	-	
39	Base + 39	-	
40	Base + 40	-	
41	Base + 41	-	
42	Base + 42	-	
43	Base + 43	-	
44	Base + 44	-	
45	Base + 45	-	
46	Base + 46	-	
47	Base + 47	-	
48	Base + 48	-	
49	Base + 49	-	
50	Base + 50	-	
51	Base + 51	-	
52	Base + 52	-	
53	Base + 53	-	
54	Base + 54	-	
55	Base + 55	-	
56	Base + 56	-	
57	Base + 57	-	
58	Base + 58	-	
59	Base + 59	-	
60	Base + 60	-	
61	Base + 61	-	
62	Base + 62	-	
63	Base + 63	-	

D-ISC 100: D-R 800 Messages

Warnings			
Bit	Coil address	Description	PRS
00	Base + 00	Upper limit value 1 active	01.00
01	Base + 01	Upper limit value 2 active	01.00
02	Base + 02	E13 Pollution >30%	01.00
03	Base + 03	E10 Overflow M	01.00
04	Base + 04	-	
05	Base + 05	-	
06	Base + 06	-	
07	Base + 07	-	
08	Base + 08	-	
09	Base + 09	-	
10	Base + 10	-	
11	Base + 11	-	
12	Base + 12	-	
13	Base + 13	-	
14	Base + 14	-	
15	Base + 15	-	
16	Base + 16	-	
17	Base + 17	-	
18	Base + 18	-	
19	Base + 19	-	
20	Base + 20	-	
21	Base + 21	-	
22	Base + 22	-	
23	Base + 23	-	
24	Base + 24	-	
25	Base + 25	-	
26	Base + 26	-	
27	Base + 27	-	
28	Base + 28	-	
29	Base + 29	-	
30	Base + 30	-	
31	Base + 31	-	
32	Base + 32	-	
33	Base + 33	-	
34	Base + 34	-	
35	Base + 35	-	
36	Base + 36	-	
37	Base + 37	-	
38	Base + 38	-	
39	Base + 39	-	
40	Base + 40	-	
41	Base + 41	-	
42	Base + 42	-	
43	Base + 43	-	
44	Base + 44	-	
45	Base + 45	-	
46	Base + 46	-	
47	Base + 47	-	
48	Base + 48	-	
49	Base + 49	-	
50	Base + 50	-	
51	Base + 51	-	
52	Base + 52	-	
53	Base + 53	-	
54	Base + 54	-	
55	Base + 55	-	
56	Base + 56	-	
57	Base + 57	-	
58	Base + 58	-	
59	Base + 59	-	
60	Base + 60	-	
61	Base + 61	-	
62	Base + 62	-	
63	Base + 63	-	

D-ISC 100: D-R 800 Messages

Simple errors			
Bit	Coil address	Description	PRS
00	Base + 00	E17 Overflow I	01.00
01	Base + 01	E16 mA-In > 20mA	01.00
02	Base + 02	E15 mA-In < 4mA	01.00
03	Base + 03	E14 Pollution > 60%	01.00
04	Base + 04	E11 Overflow P	01.00
05	Base + 05	-	
06	Base + 06	-	
07	Base + 07	-	
08	Base + 08	-	
09	Base + 09	-	
10	Base + 10	-	
11	Base + 11	-	
12	Base + 12	-	
13	Base + 13	-	
14	Base + 14	-	
15	Base + 15	-	
16	Base + 16	-	
17	Base + 17	-	
18	Base + 18	-	
19	Base + 19	-	
20	Base + 20	-	
21	Base + 21	-	
22	Base + 22	-	
23	Base + 23	-	
24	Base + 24	-	
25	Base + 25	-	
26	Base + 26	-	
27	Base + 27	-	
28	Base + 28	-	
29	Base + 29	-	
30	Base + 30	-	
31	Base + 31	-	
32	Base + 32	-	
33	Base + 33	-	
34	Base + 34	-	
35	Base + 35	-	
36	Base + 36	-	
37	Base + 37	-	
38	Base + 38	-	
39	Base + 39	-	
40	Base + 40	-	
41	Base + 41	-	
42	Base + 42	-	
43	Base + 43	-	
44	Base + 44	-	
45	Base + 45	-	
46	Base + 46	-	
47	Base + 47	-	
48	Base + 48	-	
49	Base + 49	-	
50	Base + 50	-	
51	Base + 51	-	
52	Base + 52	-	
53	Base + 53	-	
54	Base + 54	-	
55	Base + 55	-	
56	Base + 56	-	
57	Base + 57	-	
58	Base + 58	-	
59	Base + 59	-	
60	Base + 60	-	
61	Base + 61	-	
62	Base + 62	-	
63	Base + 63	-	

D-ISC 100: D-R 800 Messages

Critical errors			
Bit	Coil address	Description	PRS
00	Base + 00	E12 Overflow A	01.00
01	Base + 01	E09 New device	01.00
02	Base + 02	E08 Adjustment	01.00
03	Base + 03	E07 Laser off	01.00
04	Base + 04	E06 AD converter	01.00
05	Base + 05	E05 ROM error	01.00
06	Base + 06	E04 RAM error	01.00
07	Base + 07	E03 EEPROM version	01.00
08	Base + 08	E02 EEPROM checksum	01.00
09	Base + 09	E01 EEPROM ack	01.00
10	Base + 10	-	
11	Base + 11	-	
12	Base + 12	-	
13	Base + 13	-	
14	Base + 14	-	
15	Base + 15	-	
16	Base + 16	-	
17	Base + 17	-	
18	Base + 18	-	
19	Base + 19	-	
20	Base + 20	-	
21	Base + 21	-	
22	Base + 22	-	
23	Base + 23	-	
24	Base + 24	-	
25	Base + 25	-	
26	Base + 26	-	
27	Base + 27	-	
28	Base + 28	-	
29	Base + 29	-	
30	Base + 30	-	
31	Base + 31	-	
32	Base + 32	-	
33	Base + 33	-	
34	Base + 34	-	
35	Base + 35	-	
36	Base + 36	-	
37	Base + 37	-	
38	Base + 38	-	
39	Base + 39	-	
40	Base + 40	-	
41	Base + 41	-	
42	Base + 42	-	
43	Base + 43	-	
44	Base + 44	-	
45	Base + 45	-	
46	Base + 46	-	
47	Base + 47	-	
48	Base + 48	-	
49	Base + 49	-	
50	Base + 50	-	
51	Base + 51	-	
52	Base + 52	-	
53	Base + 53	-	
54	Base + 54	-	
55	Base + 55	-	
56	Base + 56	-	
57	Base + 57	-	
58	Base + 58	-	
59	Base + 59	-	
60	Base + 60	-	
61	Base + 61	-	
62	Base + 62	-	
63	Base + 63	-	

D-ISC 100: Module Analog In Messages

Information			
Bit	Coil address	Description	PRS
00	Base + 00	Startup (power on) [001]	01.00
01	Base + 01	Startup (extern reset) [002]	01.00
02	Base + 02	Startup (watchdog reset) [003]	01.00
03	Base + 03	Startup (bod reset) [004]	01.00
04	Base + 04	Paramter modification stored [005]	01.00
05	Base + 05	Simulation / Function test [006]	01.00
06	Base + 06	-	
07	Base + 07	-	
08	Base + 08	-	
09	Base + 09	-	
10	Base + 10	-	
11	Base + 11	-	
12	Base + 12	-	
13	Base + 13	-	
14	Base + 14	-	
15	Base + 15	-	
16	Base + 16	-	
17	Base + 17	-	
18	Base + 18	-	
19	Base + 19	-	
20	Base + 20	-	
21	Base + 21	-	
22	Base + 22	-	
23	Base + 23	-	
24	Base + 24	-	
25	Base + 25	-	
26	Base + 26	-	
27	Base + 27	-	
28	Base + 28	-	
29	Base + 29	-	
30	Base + 30	-	
31	Base + 31	-	
32	Base + 32	Hardware fault [224]	01.00
33	Base + 33	-	
34	Base + 34	-	
35	Base + 35	-	
36	Base + 36	-	
37	Base + 37	-	
38	Base + 38	-	
39	Base + 39	-	
40	Base + 40	-	
41	Base + 41	-	
42	Base + 42	-	
43	Base + 43	-	
44	Base + 44	-	
45	Base + 45	-	
46	Base + 46	-	
47	Base + 47	-	
48	Base + 48	-	
49	Base + 49	-	
50	Base + 50	-	
51	Base + 51	-	
52	Base + 52	-	
53	Base + 53	-	
54	Base + 54	-	
55	Base + 55	-	
56	Base + 56	-	
57	Base + 57	-	
58	Base + 58	-	
59	Base + 59	-	
60	Base + 60	-	
61	Base + 61	-	
62	Base + 62	-	
63	Base + 63	-	

D-ISC 100: Module Analog In Messages

Warnings			
Bit	Coil address	Description	PRS
00	Base + 00	Clock not set [064]	01.00
01	Base + 01	-	
02	Base + 02	-	
03	Base + 03	-	
04	Base + 04	-	
05	Base + 05	-	
06	Base + 06	-	
07	Base + 07	-	
08	Base + 08	-	
09	Base + 09	-	
10	Base + 10	-	
11	Base + 11	-	
12	Base + 12	-	
13	Base + 13	-	
14	Base + 14	-	
15	Base + 15	-	
16	Base + 16	-	
17	Base + 17	-	
18	Base + 18	-	
19	Base + 19	-	
20	Base + 20	-	
21	Base + 21	-	
22	Base + 22	-	
23	Base + 23	-	
24	Base + 24	-	
25	Base + 25	-	
26	Base + 26	-	
27	Base + 27	-	
28	Base + 28	-	
29	Base + 29	-	
30	Base + 30	-	
31	Base + 31	-	
32	Base + 32	-	
33	Base + 33	-	
34	Base + 34	-	
35	Base + 35	-	
36	Base + 36	-	
37	Base + 37	-	
38	Base + 38	-	
39	Base + 39	-	
40	Base + 40	-	
41	Base + 41	-	
42	Base + 42	-	
43	Base + 43	-	
44	Base + 44	-	
45	Base + 45	-	
46	Base + 46	-	
47	Base + 47	-	
48	Base + 48	-	
49	Base + 49	-	
50	Base + 50	-	
51	Base + 51	-	
52	Base + 52	-	
53	Base + 53	-	
54	Base + 54	-	
55	Base + 55	-	
56	Base + 56	-	
57	Base + 57	-	
58	Base + 58	-	
59	Base + 59	-	
60	Base + 60	-	
61	Base + 61	-	
62	Base + 62	-	
63	Base + 63	-	

D-ISC 100: Module Analog In Messages

Simple errors			
Bit	Coil address	Description	PRS
00	Base + 00	System parameter inoperative [128]	01.00
01	Base + 01	Firmware inoperative [129]	01.00
02	Base + 02	Hardware fault [130]	01.00
03	Base + 03	-	
04	Base + 04	-	
05	Base + 05	-	
06	Base + 06	-	
07	Base + 07	-	
08	Base + 08	-	
09	Base + 09	-	
10	Base + 10	-	
11	Base + 11	-	
12	Base + 12	-	
13	Base + 13	-	
14	Base + 14	-	
15	Base + 15	-	
16	Base + 16	-	
17	Base + 17	-	
18	Base + 18	-	
19	Base + 19	-	
20	Base + 20	-	
21	Base + 21	-	
22	Base + 22	-	
23	Base + 23	-	
24	Base + 24	-	
25	Base + 25	-	
26	Base + 26	-	
27	Base + 27	-	
28	Base + 28	-	
29	Base + 29	-	
30	Base + 30	-	
31	Base + 31	-	
32	Base + 32	-	
33	Base + 33	-	
34	Base + 34	-	
35	Base + 35	-	
36	Base + 36	-	
37	Base + 37	-	
38	Base + 38	-	
39	Base + 39	-	
40	Base + 40	-	
41	Base + 41	-	
42	Base + 42	-	
43	Base + 43	-	
44	Base + 44	-	
45	Base + 45	-	
46	Base + 46	-	
47	Base + 47	-	
48	Base + 48	-	
49	Base + 49	-	
50	Base + 50	-	
51	Base + 51	-	
52	Base + 52	-	
53	Base + 53	-	
54	Base + 54	-	
55	Base + 55	-	
56	Base + 56	-	
57	Base + 57	-	
58	Base + 58	-	
59	Base + 59	-	
60	Base + 60	-	
61	Base + 61	-	
62	Base + 62	-	
63	Base + 63	-	

D-ISC 100: Module Analog In Messages

Critical errors			
Bit	Coil address	Description	PRS
00	Base + 00	Hardware fault [192]	01.00
01	Base + 01	Hardware fault [193]	01.00
02	Base + 02	Hardware fault [194]	01.00
03	Base + 03	-	
04	Base + 04	-	
05	Base + 05	-	
06	Base + 06	-	
07	Base + 07	-	
08	Base + 08	-	
09	Base + 09	-	
10	Base + 10	-	
11	Base + 11	-	
12	Base + 12	-	
13	Base + 13	-	
14	Base + 14	-	
15	Base + 15	-	
16	Base + 16	-	
17	Base + 17	-	
18	Base + 18	-	
19	Base + 19	-	
20	Base + 20	-	
21	Base + 21	-	
22	Base + 22	-	
23	Base + 23	-	
24	Base + 24	-	
25	Base + 25	-	
26	Base + 26	-	
27	Base + 27	-	
28	Base + 28	-	
29	Base + 29	-	
30	Base + 30	-	
31	Base + 31	-	
32	Base + 32	-	
33	Base + 33	-	
34	Base + 34	-	
35	Base + 35	-	
36	Base + 36	-	
37	Base + 37	-	
38	Base + 38	-	
39	Base + 39	-	
40	Base + 40	-	
41	Base + 41	-	
42	Base + 42	-	
43	Base + 43	-	
44	Base + 44	-	
45	Base + 45	-	
46	Base + 46	-	
47	Base + 47	-	
48	Base + 48	-	
49	Base + 49	-	
50	Base + 50	-	
51	Base + 51	-	
52	Base + 52	-	
53	Base + 53	-	
54	Base + 54	-	
55	Base + 55	-	
56	Base + 56	-	
57	Base + 57	-	
58	Base + 58	-	
59	Base + 59	-	
60	Base + 60	-	
61	Base + 61	-	
62	Base + 62	-	
63	Base + 63	-	

D-ISC 100: Module Analog Out Messages

Information			
Bit	Coil address	Description	PRS
00	Base + 00	Startup (power on) [001]	01.00
01	Base + 01	Startup (extern reset) [002]	01.00
02	Base + 02	Startup (watchdog reset) [003]	01.00
03	Base + 03	Startup (bod reset) [004]	01.00
04	Base + 04	Paramter modification stored [005]	01.00
05	Base + 05	Simulation / Function test [006]	01.00
06	Base + 06	-	
07	Base + 07	-	
08	Base + 08	-	
09	Base + 09	-	
10	Base + 10	-	
11	Base + 11	-	
12	Base + 12	-	
13	Base + 13	-	
14	Base + 14	-	
15	Base + 15	-	
16	Base + 16	-	
17	Base + 17	-	
18	Base + 18	-	
19	Base + 19	-	
20	Base + 20	-	
21	Base + 21	-	
22	Base + 22	-	
23	Base + 23	-	
24	Base + 24	-	
25	Base + 25	-	
26	Base + 26	-	
27	Base + 27	-	
28	Base + 28	-	
29	Base + 29	-	
30	Base + 30	-	
31	Base + 31	-	
32	Base + 32	-	
33	Base + 33	-	
34	Base + 34	-	
35	Base + 35	-	
36	Base + 36	-	
37	Base + 37	-	
38	Base + 38	-	
39	Base + 39	-	
40	Base + 40	-	
41	Base + 41	-	
42	Base + 42	-	
43	Base + 43	-	
44	Base + 44	-	
45	Base + 45	-	
46	Base + 46	-	
47	Base + 47	-	
48	Base + 48	-	
49	Base + 49	-	
50	Base + 50	-	
51	Base + 51	-	
52	Base + 52	-	
53	Base + 53	-	
54	Base + 54	-	
55	Base + 55	-	
56	Base + 56	-	
57	Base + 57	-	
58	Base + 58	-	
59	Base + 59	-	
60	Base + 60	-	
61	Base + 61	-	
62	Base + 62	-	
63	Base + 63	-	

D-ISC 100: Module Analog Out Messages

Warnings			
Bit	Coil address	Description	PRS
00	Base + 00	Clock not set [064]	01.00
01	Base + 01	-	
02	Base + 02	-	
03	Base + 03	-	
04	Base + 04	-	
05	Base + 05	-	
06	Base + 06	-	
07	Base + 07	-	
08	Base + 08	-	
09	Base + 09	-	
10	Base + 10	-	
11	Base + 11	-	
12	Base + 12	-	
13	Base + 13	-	
14	Base + 14	-	
15	Base + 15	-	
16	Base + 16	-	
17	Base + 17	-	
18	Base + 18	-	
19	Base + 19	-	
20	Base + 20	-	
21	Base + 21	-	
22	Base + 22	-	
23	Base + 23	-	
24	Base + 24	-	
25	Base + 25	-	
26	Base + 26	-	
27	Base + 27	-	
28	Base + 28	-	
29	Base + 29	-	
30	Base + 30	-	
31	Base + 31	-	
32	Base + 32	-	
33	Base + 33	-	
34	Base + 34	-	
35	Base + 35	-	
36	Base + 36	-	
37	Base + 37	-	
38	Base + 38	-	
39	Base + 39	-	
40	Base + 40	-	
41	Base + 41	-	
42	Base + 42	-	
43	Base + 43	-	
44	Base + 44	-	
45	Base + 45	-	
46	Base + 46	-	
47	Base + 47	-	
48	Base + 48	-	
49	Base + 49	-	
50	Base + 50	-	
51	Base + 51	-	
52	Base + 52	-	
53	Base + 53	-	
54	Base + 54	-	
55	Base + 55	-	
56	Base + 56	-	
57	Base + 57	-	
58	Base + 58	-	
59	Base + 59	-	
60	Base + 60	-	
61	Base + 61	-	
62	Base + 62	-	
63	Base + 63	-	

D-ISC 100: Module Analog Out Messages

Simple errors			
Bit	Coil address	Description	PRS
00	Base + 00	System parameter inoperative [128]	01.00
01	Base + 01	Firmware inoperative [129]	01.00
02	Base + 02	Hardware fault [130]	01.00
03	Base + 03	-	
04	Base + 04	-	
05	Base + 05	-	
06	Base + 06	-	
07	Base + 07	-	
08	Base + 08	-	
09	Base + 09	-	
10	Base + 10	-	
11	Base + 11	-	
12	Base + 12	-	
13	Base + 13	-	
14	Base + 14	-	
15	Base + 15	-	
16	Base + 16	-	
17	Base + 17	-	
18	Base + 18	-	
19	Base + 19	-	
20	Base + 20	-	
21	Base + 21	-	
22	Base + 22	-	
23	Base + 23	-	
24	Base + 24	-	
25	Base + 25	-	
26	Base + 26	-	
27	Base + 27	-	
28	Base + 28	-	
29	Base + 29	-	
30	Base + 30	-	
31	Base + 31	-	
32	Base + 32	-	
33	Base + 33	-	
34	Base + 34	-	
35	Base + 35	-	
36	Base + 36	-	
37	Base + 37	-	
38	Base + 38	-	
39	Base + 39	-	
40	Base + 40	-	
41	Base + 41	-	
42	Base + 42	-	
43	Base + 43	-	
44	Base + 44	-	
45	Base + 45	-	
46	Base + 46	-	
47	Base + 47	-	
48	Base + 48	-	
49	Base + 49	-	
50	Base + 50	-	
51	Base + 51	-	
52	Base + 52	-	
53	Base + 53	-	
54	Base + 54	-	
55	Base + 55	-	
56	Base + 56	-	
57	Base + 57	-	
58	Base + 58	-	
59	Base + 59	-	
60	Base + 60	-	
61	Base + 61	-	
62	Base + 62	-	
63	Base + 63	-	

D-ISC 100: Module Analog Out Messages

Critical errors			
Bit	Coil address	Description	PRS
00	Base + 00	Hardware fault [192]	01.00
01	Base + 01	Hardware fault [193]	01.00
02	Base + 02	Hardware fault [194]	01.00
03	Base + 03	-	
04	Base + 04	-	
05	Base + 05	-	
06	Base + 06	-	
07	Base + 07	-	
08	Base + 08	-	
09	Base + 09	-	
10	Base + 10	-	
11	Base + 11	-	
12	Base + 12	-	
13	Base + 13	-	
14	Base + 14	-	
15	Base + 15	-	
16	Base + 16	-	
17	Base + 17	-	
18	Base + 18	-	
19	Base + 19	-	
20	Base + 20	-	
21	Base + 21	-	
22	Base + 22	-	
23	Base + 23	-	
24	Base + 24	-	
25	Base + 25	-	
26	Base + 26	-	
27	Base + 27	-	
28	Base + 28	-	
29	Base + 29	-	
30	Base + 30	-	
31	Base + 31	-	
32	Base + 32	Hardware fault [224]	01.00
33	Base + 33	-	
34	Base + 34	-	
35	Base + 35	-	
36	Base + 36	-	
37	Base + 37	-	
38	Base + 38	-	
39	Base + 39	-	
40	Base + 40	-	
41	Base + 41	-	
42	Base + 42	-	
43	Base + 43	-	
44	Base + 44	-	
45	Base + 45	-	
46	Base + 46	-	
47	Base + 47	-	
48	Base + 48	-	
49	Base + 49	-	
50	Base + 50	-	
51	Base + 51	-	
52	Base + 52	-	
53	Base + 53	-	
54	Base + 54	-	
55	Base + 55	-	
56	Base + 56	-	
57	Base + 57	-	
58	Base + 58	-	
59	Base + 59	-	
60	Base + 60	-	
61	Base + 61	-	
62	Base + 62	-	
63	Base + 63	-	

D-ISC 100: Module Digital In Messages

Information			
Bit	Coil address	Description	PRS
00	Base + 00	Startup (power on) [001]	01.00
01	Base + 01	Startup (extern reset) [002]	01.00
02	Base + 02	Startup (watchdog reset) [003]	01.00
03	Base + 03	Startup (bod reset) [004]	01.00
04	Base + 04	Paramter modification stored [005]	01.00
05	Base + 05	Simulation / Function test [006]	01.00
06	Base + 06	-	
07	Base + 07	-	
08	Base + 08	-	
09	Base + 09	-	
10	Base + 10	-	
11	Base + 11	-	
12	Base + 12	-	
13	Base + 13	-	
14	Base + 14	-	
15	Base + 15	-	
16	Base + 16	-	
17	Base + 17	-	
18	Base + 18	-	
19	Base + 19	-	
20	Base + 20	-	
21	Base + 21	-	
22	Base + 22	-	
23	Base + 23	-	
24	Base + 24	-	
25	Base + 25	-	
26	Base + 26	-	
27	Base + 27	-	
28	Base + 28	-	
29	Base + 29	-	
30	Base + 30	-	
31	Base + 31	-	
32	Base + 32	-	
33	Base + 33	-	
34	Base + 34	-	
35	Base + 35	-	
36	Base + 36	-	
37	Base + 37	-	
38	Base + 38	-	
39	Base + 39	-	
40	Base + 40	-	
41	Base + 41	-	
42	Base + 42	-	
43	Base + 43	-	
44	Base + 44	-	
45	Base + 45	-	
46	Base + 46	-	
47	Base + 47	-	
48	Base + 48	-	
49	Base + 49	-	
50	Base + 50	-	
51	Base + 51	-	
52	Base + 52	-	
53	Base + 53	-	
54	Base + 54	-	
55	Base + 55	-	
56	Base + 56	-	
57	Base + 57	-	
58	Base + 58	-	
59	Base + 59	-	
60	Base + 60	-	
61	Base + 61	-	
62	Base + 62	-	
63	Base + 63	-	

D-ISC 100: Module Digital In Messages

Warnings			
Bit	Coil address	Description	PRS
00	Base + 00	Clock not set [064]	01.00
01	Base + 01	-	
02	Base + 02	-	
03	Base + 03	-	
04	Base + 04	-	
05	Base + 05	-	
06	Base + 06	-	
07	Base + 07	-	
08	Base + 08	-	
09	Base + 09	-	
10	Base + 10	-	
11	Base + 11	-	
12	Base + 12	-	
13	Base + 13	-	
14	Base + 14	-	
15	Base + 15	-	
16	Base + 16	-	
17	Base + 17	-	
18	Base + 18	-	
19	Base + 19	-	
20	Base + 20	-	
21	Base + 21	-	
22	Base + 22	-	
23	Base + 23	-	
24	Base + 24	-	
25	Base + 25	-	
26	Base + 26	-	
27	Base + 27	-	
28	Base + 28	-	
29	Base + 29	-	
30	Base + 30	-	
31	Base + 31	-	
32	Base + 32	-	
33	Base + 33	-	
34	Base + 34	-	
35	Base + 35	-	
36	Base + 36	-	
37	Base + 37	-	
38	Base + 38	-	
39	Base + 39	-	
40	Base + 40	-	
41	Base + 41	-	
42	Base + 42	-	
43	Base + 43	-	
44	Base + 44	-	
45	Base + 45	-	
46	Base + 46	-	
47	Base + 47	-	
48	Base + 48	-	
49	Base + 49	-	
50	Base + 50	-	
51	Base + 51	-	
52	Base + 52	-	
53	Base + 53	-	
54	Base + 54	-	
55	Base + 55	-	
56	Base + 56	-	
57	Base + 57	-	
58	Base + 58	-	
59	Base + 59	-	
60	Base + 60	-	
61	Base + 61	-	
62	Base + 62	-	
63	Base + 63	-	

D-ISC 100: Module Digital In Messages

Simple errors			
Bit	Coil address	Description	PRS
00	Base + 00	System parameter inoperative [128]	01.00
01	Base + 01	Firmware inoperative [129]	01.00
02	Base + 02	Hardware fault [130]	01.00
03	Base + 03	-	
04	Base + 04	-	
05	Base + 05	-	
06	Base + 06	-	
07	Base + 07	-	
08	Base + 08	-	
09	Base + 09	-	
10	Base + 10	-	
11	Base + 11	-	
12	Base + 12	-	
13	Base + 13	-	
14	Base + 14	-	
15	Base + 15	-	
16	Base + 16	-	
17	Base + 17	-	
18	Base + 18	-	
19	Base + 19	-	
20	Base + 20	-	
21	Base + 21	-	
22	Base + 22	-	
23	Base + 23	-	
24	Base + 24	-	
25	Base + 25	-	
26	Base + 26	-	
27	Base + 27	-	
28	Base + 28	-	
29	Base + 29	-	
30	Base + 30	-	
31	Base + 31	-	
32	Base + 32	-	
33	Base + 33	-	
34	Base + 34	-	
35	Base + 35	-	
36	Base + 36	-	
37	Base + 37	-	
38	Base + 38	-	
39	Base + 39	-	
40	Base + 40	-	
41	Base + 41	-	
42	Base + 42	-	
43	Base + 43	-	
44	Base + 44	-	
45	Base + 45	-	
46	Base + 46	-	
47	Base + 47	-	
48	Base + 48	-	
49	Base + 49	-	
50	Base + 50	-	
51	Base + 51	-	
52	Base + 52	-	
53	Base + 53	-	
54	Base + 54	-	
55	Base + 55	-	
56	Base + 56	-	
57	Base + 57	-	
58	Base + 58	-	
59	Base + 59	-	
60	Base + 60	-	
61	Base + 61	-	
62	Base + 62	-	
63	Base + 63	-	

D-ISC 100: Module Digital In Messages

Critical errors			
Bit	Coil address	Description	PRS
00	Base + 00	Hardware fault [192]	01.00
01	Base + 01	Hardware fault [193]	01.00
02	Base + 02	Hardware fault [194]	01.00
03	Base + 03	-	
04	Base + 04	-	
05	Base + 05	-	
06	Base + 06	-	
07	Base + 07	-	
08	Base + 08	-	
09	Base + 09	-	
10	Base + 10	-	
11	Base + 11	-	
12	Base + 12	-	
13	Base + 13	-	
14	Base + 14	-	
15	Base + 15	-	
16	Base + 16	-	
17	Base + 17	-	
18	Base + 18	-	
19	Base + 19	-	
20	Base + 20	-	
21	Base + 21	-	
22	Base + 22	-	
23	Base + 23	-	
24	Base + 24	-	
25	Base + 25	-	
26	Base + 26	-	
27	Base + 27	-	
28	Base + 28	-	
29	Base + 29	-	
30	Base + 30	-	
31	Base + 31	-	
32	Base + 32	-	
33	Base + 33	-	
34	Base + 34	-	
35	Base + 35	-	
36	Base + 36	-	
37	Base + 37	-	
38	Base + 38	-	
39	Base + 39	-	
40	Base + 40	-	
41	Base + 41	-	
42	Base + 42	-	
43	Base + 43	-	
44	Base + 44	-	
45	Base + 45	-	
46	Base + 46	-	
47	Base + 47	-	
48	Base + 48	-	
49	Base + 49	-	
50	Base + 50	-	
51	Base + 51	-	
52	Base + 52	-	
53	Base + 53	-	
54	Base + 54	-	
55	Base + 55	-	
56	Base + 56	-	
57	Base + 57	-	
58	Base + 58	-	
59	Base + 59	-	
60	Base + 60	-	
61	Base + 61	-	
62	Base + 62	-	
63	Base + 63	-	

D-ISC 100: Module Digital Out Messages

Information			
Bit	Coil address	Description	PRS
00	Base + 00	Startup (power on) [001]	01.00
01	Base + 01	Startup (extern reset) [002]	01.00
02	Base + 02	Startup (watchdog reset) [003]	01.00
03	Base + 03	Startup (bod reset) [004]	01.00
04	Base + 04	Paramter modification stored [005]	01.00
05	Base + 05	Simulation / Function test [006]	01.00
06	Base + 06	-	
07	Base + 07	-	
08	Base + 08	-	
09	Base + 09	-	
10	Base + 10	-	
11	Base + 11	-	
12	Base + 12	-	
13	Base + 13	-	
14	Base + 14	-	
15	Base + 15	-	
16	Base + 16	-	
17	Base + 17	-	
18	Base + 18	-	
19	Base + 19	-	
20	Base + 20	-	
21	Base + 21	-	
22	Base + 22	-	
23	Base + 23	-	
24	Base + 24	-	
25	Base + 25	-	
26	Base + 26	-	
27	Base + 27	-	
28	Base + 28	-	
29	Base + 29	-	
30	Base + 30	-	
31	Base + 31	-	
32	Base + 32	-	
33	Base + 33	-	
34	Base + 34	-	
35	Base + 35	-	
36	Base + 36	-	
37	Base + 37	-	
38	Base + 38	-	
39	Base + 39	-	
40	Base + 40	-	
41	Base + 41	-	
42	Base + 42	-	
43	Base + 43	-	
44	Base + 44	-	
45	Base + 45	-	
46	Base + 46	-	
47	Base + 47	-	
48	Base + 48	-	
49	Base + 49	-	
50	Base + 50	-	
51	Base + 51	-	
52	Base + 52	-	
53	Base + 53	-	
54	Base + 54	-	
55	Base + 55	-	
56	Base + 56	-	
57	Base + 57	-	
58	Base + 58	-	
59	Base + 59	-	
60	Base + 60	-	
61	Base + 61	-	
62	Base + 62	-	
63	Base + 63	-	

D-ISC 100: Module Digital Out Messages

Warnings			
Bit	Coil address	Description	PRS
00	Base + 00	Clock not set [064]	01.00
01	Base + 01	-	
02	Base + 02	-	
03	Base + 03	-	
04	Base + 04	-	
05	Base + 05	-	
06	Base + 06	-	
07	Base + 07	-	
08	Base + 08	-	
09	Base + 09	-	
10	Base + 10	-	
11	Base + 11	-	
12	Base + 12	-	
13	Base + 13	-	
14	Base + 14	-	
15	Base + 15	-	
16	Base + 16	-	
17	Base + 17	-	
18	Base + 18	-	
19	Base + 19	-	
20	Base + 20	-	
21	Base + 21	-	
22	Base + 22	-	
23	Base + 23	-	
24	Base + 24	-	
25	Base + 25	-	
26	Base + 26	-	
27	Base + 27	-	
28	Base + 28	-	
29	Base + 29	-	
30	Base + 30	-	
31	Base + 31	-	
32	Base + 32	-	
33	Base + 33	-	
34	Base + 34	-	
35	Base + 35	-	
36	Base + 36	-	
37	Base + 37	-	
38	Base + 38	-	
39	Base + 39	-	
40	Base + 40	-	
41	Base + 41	-	
42	Base + 42	-	
43	Base + 43	-	
44	Base + 44	-	
45	Base + 45	-	
46	Base + 46	-	
47	Base + 47	-	
48	Base + 48	-	
49	Base + 49	-	
50	Base + 50	-	
51	Base + 51	-	
52	Base + 52	-	
53	Base + 53	-	
54	Base + 54	-	
55	Base + 55	-	
56	Base + 56	-	
57	Base + 57	-	
58	Base + 58	-	
59	Base + 59	-	
60	Base + 60	-	
61	Base + 61	-	
62	Base + 62	-	
63	Base + 63	-	

D-ISC 100: Module Digital Out Messages

Simple errors			
Bit	Coil address	Description	PRS
00	Base + 00	System parameter inoperative [128]	01.00
01	Base + 01	Firmware inoperative [129]	01.00
02	Base + 02	Hardware fault [130]	01.00
03	Base + 03	-	
04	Base + 04	-	
05	Base + 05	-	
06	Base + 06	-	
07	Base + 07	-	
08	Base + 08	-	
09	Base + 09	-	
10	Base + 10	-	
11	Base + 11	-	
12	Base + 12	-	
13	Base + 13	-	
14	Base + 14	-	
15	Base + 15	-	
16	Base + 16	-	
17	Base + 17	-	
18	Base + 18	-	
19	Base + 19	-	
20	Base + 20	-	
21	Base + 21	-	
22	Base + 22	-	
23	Base + 23	-	
24	Base + 24	-	
25	Base + 25	-	
26	Base + 26	-	
27	Base + 27	-	
28	Base + 28	-	
29	Base + 29	-	
30	Base + 30	-	
31	Base + 31	-	
32	Base + 32	-	
33	Base + 33	-	
34	Base + 34	-	
35	Base + 35	-	
36	Base + 36	-	
37	Base + 37	-	
38	Base + 38	-	
39	Base + 39	-	
40	Base + 40	-	
41	Base + 41	-	
42	Base + 42	-	
43	Base + 43	-	
44	Base + 44	-	
45	Base + 45	-	
46	Base + 46	-	
47	Base + 47	-	
48	Base + 48	-	
49	Base + 49	-	
50	Base + 50	-	
51	Base + 51	-	
52	Base + 52	-	
53	Base + 53	-	
54	Base + 54	-	
55	Base + 55	-	
56	Base + 56	-	
57	Base + 57	-	
58	Base + 58	-	
59	Base + 59	-	
60	Base + 60	-	
61	Base + 61	-	
62	Base + 62	-	
63	Base + 63	-	

D-ISC 100: Module Digital Out Messages

Critical errors			
Bit	Coil address	Description	PRS
00	Base + 00	Hardware fault [192]	01.00
01	Base + 01	Hardware fault [193]	01.00
02	Base + 02	Hardware fault [194]	01.00
03	Base + 03	-	
04	Base + 04	-	
05	Base + 05	-	
06	Base + 06	-	
07	Base + 07	-	
08	Base + 08	-	
09	Base + 09	-	
10	Base + 10	-	
11	Base + 11	-	
12	Base + 12	-	
13	Base + 13	-	
14	Base + 14	-	
15	Base + 15	-	
16	Base + 16	-	
17	Base + 17	-	
18	Base + 18	-	
19	Base + 19	-	
20	Base + 20	-	
21	Base + 21	-	
22	Base + 22	-	
23	Base + 23	-	
24	Base + 24	-	
25	Base + 25	-	
26	Base + 26	-	
27	Base + 27	-	
28	Base + 28	-	
29	Base + 29	-	
30	Base + 30	-	
31	Base + 31	-	
32	Base + 32	Hardware fault [224]	01.01
33	Base + 33	-	
34	Base + 34	-	
35	Base + 35	-	
36	Base + 36	-	
37	Base + 37	-	
38	Base + 38	-	
39	Base + 39	-	
40	Base + 40	-	
41	Base + 41	-	
42	Base + 42	-	
43	Base + 43	-	
44	Base + 44	-	
45	Base + 45	-	
46	Base + 46	-	
47	Base + 47	-	
48	Base + 48	-	
49	Base + 49	-	
50	Base + 50	-	
51	Base + 51	-	
52	Base + 52	-	
53	Base + 53	-	
54	Base + 54	-	
55	Base + 55	-	
56	Base + 56	-	
57	Base + 57	-	
58	Base + 58	-	
59	Base + 59	-	
60	Base + 60	-	
61	Base + 61	-	
62	Base + 62	-	
63	Base + 63	-	

D-ISC 100: Module Modbus RTU Messages

Information			
Bit	Coil address	Description	PRS
00	Base + 00	Startup (power on) [001]	01.00
01	Base + 01	Startup (extern reset) [002]	01.00
02	Base + 02	Startup (watchdog reset) [003]	01.00
03	Base + 03	Startup (bod reset) [004]	01.00
04	Base + 04	Paramter modification stored [005]	01.00
05	Base + 05	Simulation / Function test [006]	01.00
06	Base + 06	-	
07	Base + 07	-	
08	Base + 08	-	
09	Base + 09	-	
10	Base + 10	-	
11	Base + 11	-	
12	Base + 12	-	
13	Base + 13	-	
14	Base + 14	-	
15	Base + 15	-	
16	Base + 16	-	
17	Base + 17	-	
18	Base + 18	-	
19	Base + 19	-	
20	Base + 20	-	
21	Base + 21	-	
22	Base + 22	-	
23	Base + 23	-	
24	Base + 24	-	
25	Base + 25	-	
26	Base + 26	-	
27	Base + 27	-	
28	Base + 28	-	
29	Base + 29	-	
30	Base + 30	-	
31	Base + 31	-	
32	Base + 32	-	
33	Base + 33	-	
34	Base + 34	-	
35	Base + 35	-	
36	Base + 36	-	
37	Base + 37	-	
38	Base + 38	-	
39	Base + 39	-	
40	Base + 40	-	
41	Base + 41	-	
42	Base + 42	-	
43	Base + 43	-	
44	Base + 44	-	
45	Base + 45	-	
46	Base + 46	-	
47	Base + 47	-	
48	Base + 48	-	
49	Base + 49	-	
50	Base + 50	-	
51	Base + 51	-	
52	Base + 52	-	
53	Base + 53	-	
54	Base + 54	-	
55	Base + 55	-	
56	Base + 56	-	
57	Base + 57	-	
58	Base + 58	-	
59	Base + 59	-	
60	Base + 60	-	
61	Base + 61	-	
62	Base + 62	-	
63	Base + 63	-	

D-ISC 100: Module Modbus RTU Messages

Warnings			
Bit	Coil address	Description	PRS
00	Base + 00	Clock not set [064]	01.00
01	Base + 01	-	
02	Base + 02	-	
03	Base + 03	-	
04	Base + 04	-	
05	Base + 05	-	
06	Base + 06	-	
07	Base + 07	-	
08	Base + 08	-	
09	Base + 09	-	
10	Base + 10	-	
11	Base + 11	-	
12	Base + 12	-	
13	Base + 13	-	
14	Base + 14	-	
15	Base + 15	-	
16	Base + 16	-	
17	Base + 17	-	
18	Base + 18	-	
19	Base + 19	-	
20	Base + 20	-	
21	Base + 21	-	
22	Base + 22	-	
23	Base + 23	-	
24	Base + 24	-	
25	Base + 25	-	
26	Base + 26	-	
27	Base + 27	-	
28	Base + 28	-	
29	Base + 29	-	
30	Base + 30	-	
31	Base + 31	-	
32	Base + 32	-	
33	Base + 33	-	
34	Base + 34	-	
35	Base + 35	-	
36	Base + 36	-	
37	Base + 37	-	
38	Base + 38	-	
39	Base + 39	-	
40	Base + 40	-	
41	Base + 41	-	
42	Base + 42	-	
43	Base + 43	-	
44	Base + 44	-	
45	Base + 45	-	
46	Base + 46	-	
47	Base + 47	-	
48	Base + 48	-	
49	Base + 49	-	
50	Base + 50	-	
51	Base + 51	-	
52	Base + 52	-	
53	Base + 53	-	
54	Base + 54	-	
55	Base + 55	-	
56	Base + 56	-	
57	Base + 57	-	
58	Base + 58	-	
59	Base + 59	-	
60	Base + 60	-	
61	Base + 61	-	
62	Base + 62	-	
63	Base + 63	-	

D-ISC 100: Module Modbus RTU Messages

Simple errors			
Bit	Coil address	Description	PRS
00	Base + 00	System parameter inoperative [128]	01.00
01	Base + 01	Firmware inoperative [129]	01.00
02	Base + 02	Hardware fault [130]	01.00
03	Base + 03	-	
04	Base + 04	-	
05	Base + 05	-	
06	Base + 06	-	
07	Base + 07	-	
08	Base + 08	-	
09	Base + 09	-	
10	Base + 10	-	
11	Base + 11	-	
12	Base + 12	-	
13	Base + 13	-	
14	Base + 14	-	
15	Base + 15	-	
16	Base + 16	-	
17	Base + 17	-	
18	Base + 18	-	
19	Base + 19	-	
20	Base + 20	-	
21	Base + 21	-	
22	Base + 22	-	
23	Base + 23	-	
24	Base + 24	-	
25	Base + 25	-	
26	Base + 26	-	
27	Base + 27	-	
28	Base + 28	-	
29	Base + 29	-	
30	Base + 30	-	
31	Base + 31	-	
32	Base + 32	-	
33	Base + 33	-	
34	Base + 34	-	
35	Base + 35	-	
36	Base + 36	-	
37	Base + 37	-	
38	Base + 38	-	
39	Base + 39	-	
40	Base + 40	-	
41	Base + 41	-	
42	Base + 42	-	
43	Base + 43	-	
44	Base + 44	-	
45	Base + 45	-	
46	Base + 46	-	
47	Base + 47	-	
48	Base + 48	-	
49	Base + 49	-	
50	Base + 50	-	
51	Base + 51	-	
52	Base + 52	-	
53	Base + 53	-	
54	Base + 54	-	
55	Base + 55	-	
56	Base + 56	-	
57	Base + 57	-	
58	Base + 58	-	
59	Base + 59	-	
60	Base + 60	-	
61	Base + 61	-	
62	Base + 62	-	
63	Base + 63	-	

D-ISC 100: Module Modbus RTU Messages

Critical errors			
Bit	Coil address	Description	PRS
00	Base + 00	Hardware fault [192]	01.00
01	Base + 01	Hardware fault [193]	01.00
02	Base + 02	Hardware fault [194]	01.00
03	Base + 03	-	
04	Base + 04	-	
05	Base + 05	-	
06	Base + 06	-	
07	Base + 07	-	
08	Base + 08	-	
09	Base + 09	-	
10	Base + 10	-	
11	Base + 11	-	
12	Base + 12	-	
13	Base + 13	-	
14	Base + 14	-	
15	Base + 15	-	
16	Base + 16	-	
17	Base + 17	-	
18	Base + 18	-	
19	Base + 19	-	
20	Base + 20	-	
21	Base + 21	-	
22	Base + 22	-	
23	Base + 23	-	
24	Base + 24	-	
25	Base + 25	-	
26	Base + 26	-	
27	Base + 27	-	
28	Base + 28	-	
29	Base + 29	-	
30	Base + 30	-	
31	Base + 31	-	
32	Base + 32	-	
33	Base + 33	-	
34	Base + 34	-	
35	Base + 35	-	
36	Base + 36	-	
37	Base + 37	-	
38	Base + 38	-	
39	Base + 39	-	
40	Base + 40	-	
41	Base + 41	-	
42	Base + 42	-	
43	Base + 43	-	
44	Base + 44	-	
45	Base + 45	-	
46	Base + 46	-	
47	Base + 47	-	
48	Base + 48	-	
49	Base + 49	-	
50	Base + 50	-	
51	Base + 51	-	
52	Base + 52	-	
53	Base + 53	-	
54	Base + 54	-	
55	Base + 55	-	
56	Base + 56	-	
57	Base + 57	-	
58	Base + 58	-	
59	Base + 59	-	
60	Base + 60	-	
61	Base + 61	-	
62	Base + 62	-	
63	Base + 63	-	

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