

The ET 401 analyzer may be used as a complete standalone monitor or as part of an integrated emission monitoring, logging and reporting system. The instrument is particularly suited to large/dirty processes.

### Description

The **ET 401** is a single channel cross-duct analyzer for the measurement of CO. It uses an infrared transmitter to project a beam of light across the duct to a receiver mounted opposite. The light beam is tuned to a specific wavelength where the CO molecules absorb the light energy but there is no interference from water vapor and other gases. Gas filter correlation (GFC) is used to isolate the interference of dust particulates and by using high efficiency air purges the optical surfaces are protected from contamination.

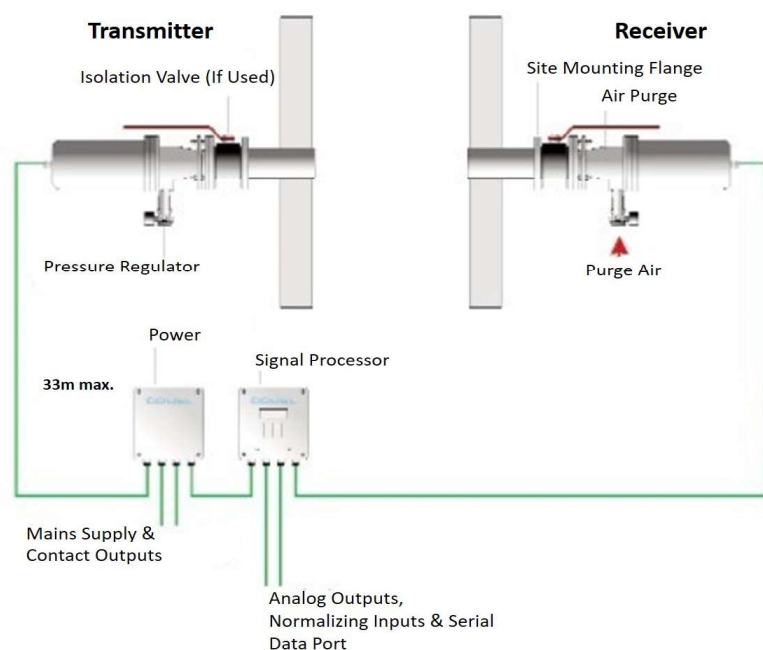
### Features and Benefits:

- > Highly efficient air purges for minimal lens contamination
- > Automatic on-line zero calibration using integral reference gas cell
- > Real-time normalization to standard reference conditions
- > Low maintenance - only simple, infrequent checks to windows are required
- > Data presentation in ppm, mg/m<sup>3</sup> or mg/Nm<sup>3</sup>



### APPLICATIONS

- > CO Monitoring for Safety
- > CO Measurement for Process
- > Gas Boilers
- > Gas Turbines
- > Gas Processes



### MONITORING SOLUTIONS

Complete source for all your Continuous Emissions Monitoring (CEMS) needs:

- > Both Dilution and Extraction CEMS systems
- > Data Acquisition Systems (DAS)
- > Flow Monitoring
- > Opacity Monitoring
- > Oxygen Monitoring Systems
- > Particulate (PM) Monitoring
- > Process Monitoring Systems

## SPECIFICATIONS

<b>Range</b>	0 to 6000 ppm.m
<b>Plant Status Input</b>	Isolated Field Contact Input
<b>Averaging</b>	4 Rolling Averages Selectable from 10 seconds to 30 days
<b>Accuracy</b>	+/-2% of Measurement or +/-5ppm.m whichever is the greater
<b>Analogue Output</b>	0/4-20mA isolated, 500Ω
<b>Contact Output</b>	Volt-Free contact, 250V/10A
<b>Normalizing Inputs</b>	4-20 mA Serial Inputs via Keypad for Oxygen, Temperature & Pressure
<b>Serial Port</b>	4-Wire, Current-Loop Based, 2-Way Comms. up to 3281 Feet
<b>Path Length</b>	16.4 to 26 Feet
<b>Fuel Gas Temperature</b>	32°F to 1202°F
<b>Construction</b>	Cast Aluminum, Fully Sealed to IP65
<b>Ambient Temperature</b>	68°F to 158°F
<b>Power Air Consumption</b>	1 Liter/Second/Purge
<b>Power</b>	110/220V, 50/60Hz, 50VA (variations of +/-20%)
<b>Data Valid Output</b>	Volt-Free Contact. 250V/10A

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