

A road & rail tunnel monitor using well-proven technology to provide accurate and rapid results.





Monitoring Solutions

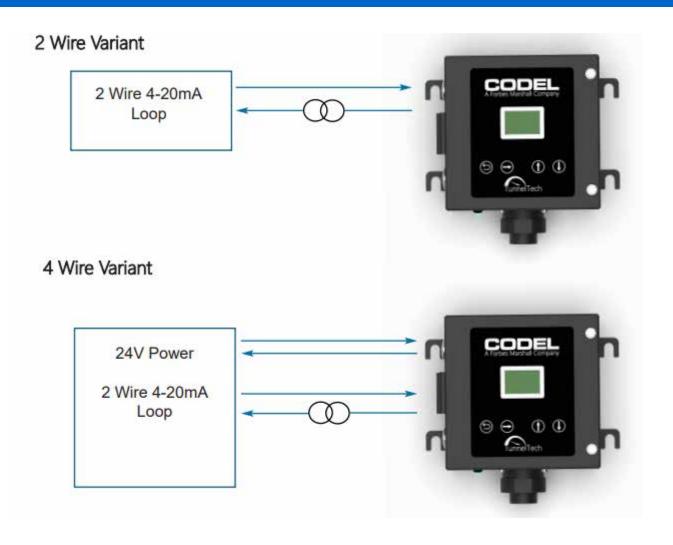
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The TunnelTech 400 Air Quality Monitor, is an essential part of any road or rail tunnel safety system. Firstly, it monitors the atmosphere within the tunnel and ensures that the tunnel ventilation system provides sufficient clean air to protect tunnel users health and for drivers to clearly see the road ahead.

The TunnelTech 400 analyser electrochemical cell technology determines CO, NO NO2, SO2 or O2 concentrations. With no moving parts, reliability levels are extremely high and maintenance requirements are very low.

Designed for it's accuracy and ease of use the TunnelTech 400 single cell gas analyser is the perfect replacement for exisiting current single cell analysers.

Its adaptable fitting feature allows the analyser to replace any type of existing single cell analyser with an easy installation process requiring minimal wiring.



- Fully configurable 4-20mA Passive Output
- Advanced electrochemical cell technology
- Single species gas analyser housed in a compact stainless steel sensor
- Two and four wire versions available
- ▶ Easy installation with minimal wiring required
- Minimal maintenance requirements

Technical Specification

Sensor Unit

Gas Species Options Single CO, NO, NO2, SO2 & O2

Measuring units ppm for CO, NO, NO2, SO2 & % for O2

Averaging Time 0.5 to 30 Minutes

Measurement	Carbon Monoxide (CO)	Nitric Oxide (NO)	Nitric Dioxide (NO2)	SO2	02
Measurement Technique	EC	EC	EC	EC	EC
Measurement Range (typical)	0 - 300ppm	0 - 30ppm	0 to 5 ppm	0 to 20 ppm	0 to 25%
Accuracy	0.5 ppm	0.5 ppm	0.1 ppm	0.5 ppm	+/- 0.1%
Resolution	< 1 Minute	< 1 Minute	0.001 ppm	0.1 ppm	+/- 0.1%
Response Time	30 seconds				
Detection Limit	0.5 ppm	0.5 ppm	0.1 ppm	0.5 ppm	0.1 %
Zero Drift	<+/- 100 ppb	<+/- 50 ppb	<+/- 20 ppb	<+/- 20ppb	<+/-0.1%
Measurement Drift	< 5% per year	< 10% per year	< 10% per year	< 8% Per Year	< 4% Per Year

Calibration Flowrate 11L/m

Power Supply 24V DC

Operating Temperature -20oC to +60oC

Construction SS316L (Standard) Silver / Brushed Metal ABS Plastic (Optional) Black Mat

Compliances

EMC Designed to EN50270:2015

IK Code IK07 (SS316) and IK05 (ABS)

Enclosure IP Designed to IP66 (IP6K9 Optional)

Customer Interface

Display Monochrome LCD Display & Keypad Membrane

LED Tricolour LED enabled on 4 wires version

Serial Communication Port RS485 Serial Communication with configurable protocols (ModBUS RTU)



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