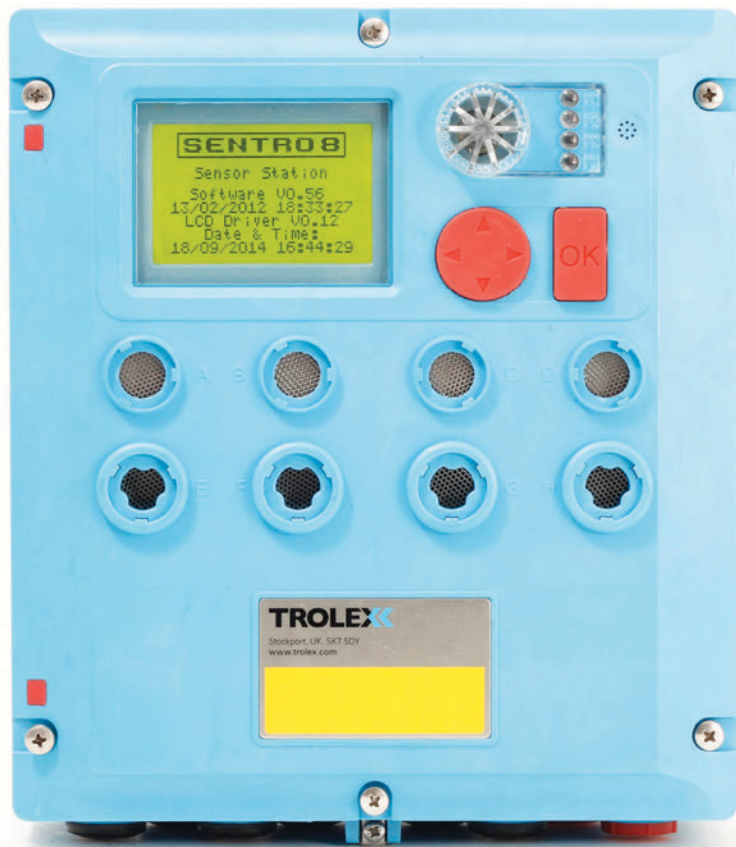


TROLEX

TX9165 SENTRO 8

Eight-channel Sensor



The Sentro 8 can simultaneously monitor the concentration of up to eight different gases making it a multi-gas detector, together with levels of ambient temperature, ventilation, air velocity or any choice of remote connected sensors that you require.

INTEGRATED MONITORING STATION

Environments Mining, Tunnelling

Applications Underground storage areas, Underground transportation, Conveyor systems, Water utilities, Pump stations, Machine monitoring, Ventilation systems

Features

Up to eight different gases, or a combination of eight remote sensors measuring temperature, pressure, level, vibration, speed, proximity or air velocity, can be monitored simultaneously without the need for complex system design

- LARGE LCD READOUT
- EXTRA BRIGHT LED WARNING BEACON
- AUDIBLE WARNING
- OUTPUT INDICATORS
- WATERPROOF KEYPAD
- INTELLIGENT PLUG-IN SENSING eMODULES
- HIGH STRENGTH MOULDED HOUSING

Sentro 8 eModules for environmental gas concentration

A wide choice of interchangeable sensing modules is available, each with its own processor for intelligent data storage and signal conditioning circuits.

The modules are already calibrated so you can substitute them at any time with a replacement module in a matter of seconds. Each module contains its type identification and stores its full service history including gas identity, measuring range, data logging, predicted life span, calibration history, set points, failure modes and alarm setting. All the acquired data stays with the module throughout its functional life.

There is no danger of inserting the wrong module. You can configure up to twenty insert codes and Sentro 8 automatically identifies the module that is inserted. Security coding is used to ensure that the same type of Sentro eModule is always used.

This integrated, multi-use multi-gas sensor station – with intelligent, interchangeable sensing modules – brings together an array of accredited hazardous-area technologies. These are served by universal data communications architecture, making it straightforward to network sensor stations to a master computer and expand the system if required at a later date

Carbon Monoxide	Hydrogen Sulphide	Sulphur Dioxide	Nitrogen Dioxide	Chlorine
0 to 50 ppm 0 to 250 ppm 0 to 500 ppm	0 to 50 ppm	0 to 20 ppm	0 to 20 ppm	0 to 10 ppm
Oxygen	Nitric Oxide	Hydrogen	Methane	
0 to 25 %	0 to 50 ppm	0 to 1000 ppm	0 to 100% LEL	



Individual Configuration(s) for any Monitoring Application



Environmental Monitoring System

A Sentro 8 Sensorstation configured for environmental monitoring, fitted with four Sentro eModules for:

- Oxygen
- Methane
- Carbon Monoxide
- Hydrogen Sulphide

Four additional Sentro rModules for remote mounted sensors to provide safety condition monitoring:

- Air flow sensor
- Pressure sensor
- Vibration sensor
- Temperature sensor



Environmental and Safety Monitoring System

A Sentro 8 Sensorstation with eight Sentro rModules for remote mounted sensors on a machine condition monitoring system:

- 2 x air flow sensors
- 2 x pressure sensors
- 2 x vibration sensors
- 2 x temperature sensors

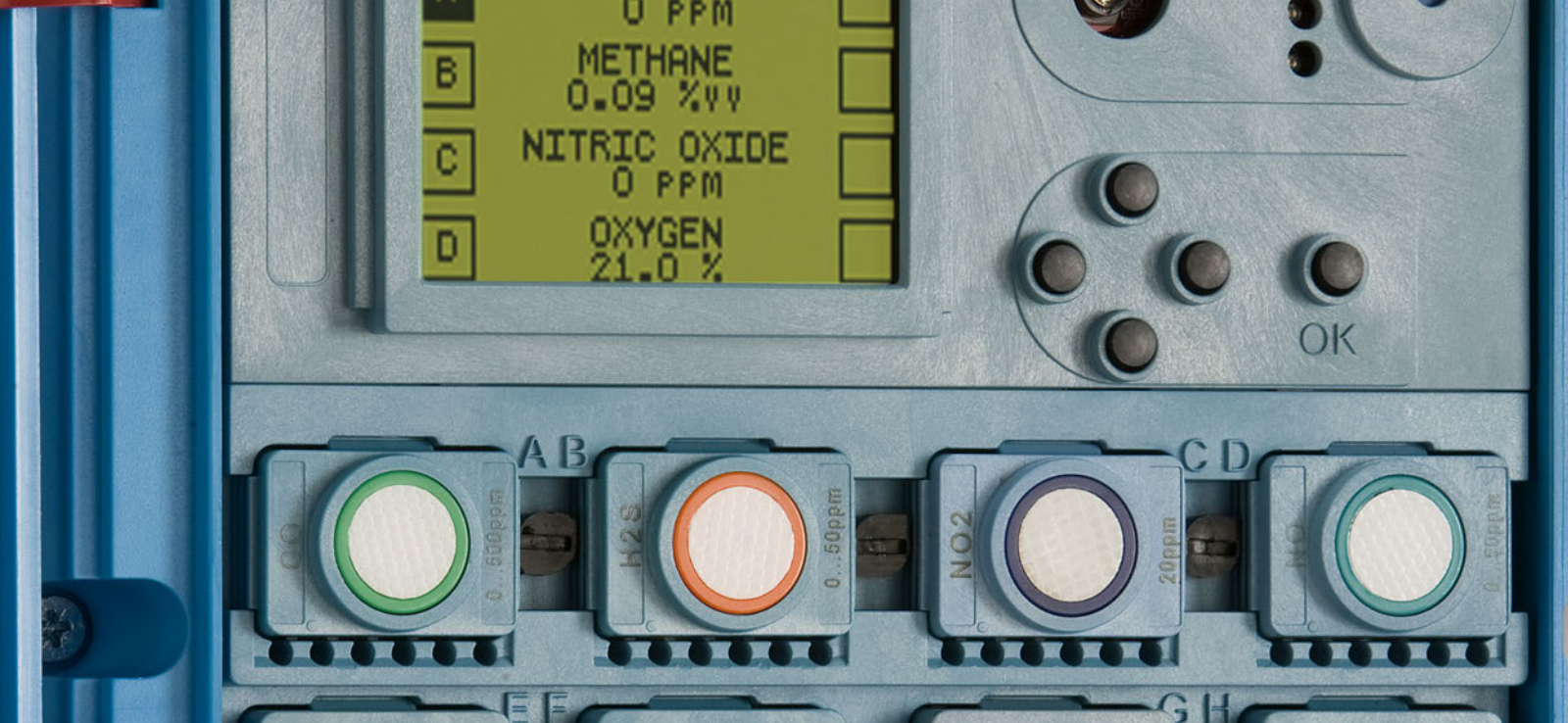


Condition Monitoring System

A Sentro 8 Sensorstation with one Sentro eModule for single gas sensing.

Six Sentro rModules for remote mounted sensors on a ventilation fan:

- 2 x air flow sensors
- 2 x vibration sensors
- Pressure sensor
- Temperature sensor



Technical Information

Output:	RS485	
Electrical details:	General Purpose	Mining M1 (Exi)
Supply voltage:	24 V dc/85 to 265 V ac	12 V dc
Supply current:	200 mA maximum loading including one pellistor eModule	
Output relays:	Four independent alarm relays each programmable to any alarm setpoint on any monitoring channel for preferred alarm priority grouping	
Relay contacts:	One changeover contact on each relay	
	2 Amps 230 V ac	Suitable for, and clearance compatible for, intrinsically safe circuits
Alarms:	Built-in visual alarms can be selected to operate at two adjustable set-points and high intensity audible sounder rated at 95 db at 300 mm	
Operating temperature range:	-10 to 40 °C	
Humidity:	95%RH, non-condensing	
Storage temperature limits:	-20 to 60 °C	
Housing materials:	Reinforced polymer EMC protected and proof against surface electrostatic charge	
Protection classification:	Housing dust and waterproof to IP65 Gas port IP54	
Weight:	2.8 kg	
Mounting:	Two 6.5 mm diameter fixing holes (Unistrut 6946 compatible)	



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