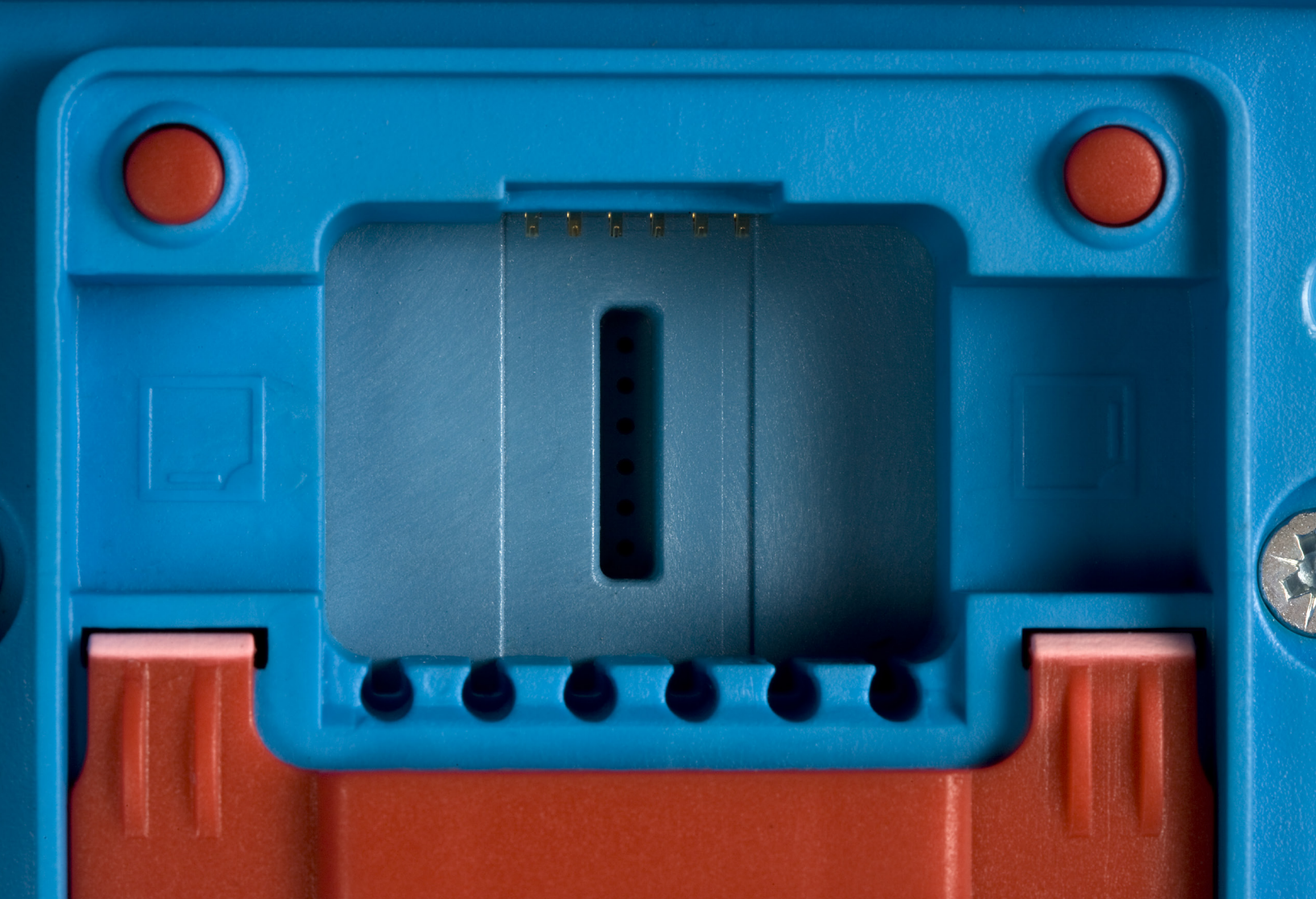# TX6361 SENTRO 1

UNIVERSAL GAS DETECTOR

Environments: Mining , Tunnelling, Applications: Underground storage areas, Underground transportation, Conveyor systems, Water utilities, Pump stations, Machine monitoring, Ventilation systems, Storage Areas, Process Plants

FEATURES

☑ High accuracy gas detector with calibrated input sensing modules to detect a range of Toxic and Flammable gases
☑ Module can be changed out in seconds for easy calibration and maintenance

Choice of output signals:

☑ 0.4 to 2 V analogue
☑ 4 to 20 mA analogue
☑ 5 to 15 Hz analogue- Dual relay contacts
☑ RS485 addressable Modbus datacomms

☑ Large backlit LCD readout provides clear sensor information and diagnostic data
☑ Auto ZERO and SPAN calibration with simple display instructions
☑ Two programmable setpoints for inbuilt visual alarms
☑ High strength, dual wall moulded housing for maximum impact protection
☑ Easy access terminal chamber with large, vibration secure, terminals for connecting heavy plant cables
☑ Dust and waterproof to IP65 with full EMC conformity
☑ Automatic calculation of STEL and TWA limits
☑ Certified for use in hazardous areas

SENTRO 1 EMODULES FOR ENVIRONMENTAL GAS CONCENTRATION

The heart of Sentro 1 is the eModule; an intelligent standardised gas sensing module to cover a range of toxic and flammable gases. Dynamic data is stored within each module, together with the condition of the gas sensing element and its service history.

The modules are already calibrated so they can be used substituted at any time with replacement module. Each eModule retains its calibration data and is automatically recognised by Sentro when the eModule is inserted. This significantly simplifies calibration and maintenance and the module can be changed, even with the power applied. Up to 20 insert codes can be configured when it is necessary to ensure that the same type of Sentro eModule is always used.

SPECIFICATIONS

☠ ☣	Electrochemical cells for toxic gas detection Selected models are equipped with TWA and STEL capability	Carbon Monoxide	CO	0 to 50 ppm 0 to 250 ppm 0 to 500 ppm 0 to 1000 ppm	TWA/STEL
		Hydrogen Sulphide	H_2S	0 to 50 ppm	TWA/STEL
		Sulphur Dioxide	SO_2	0 to 20 ppm	TWA/STEL
		Nitrogen Dioxide	NO_2	0 to 20 ppm	TWA/STEL
		Oxygen	O_2	0 to 25% v/v	-
		Nitric Oxide	NO	0 to 50 ppm	TWA/STEL
		Hydrogen	H_2	0 to 1000 ppm	-
☣	Poison resistant catalytic combustion cells for most flammable gases	Methane	CH_4	0 to 100% LEL	-
		Methane	CH_4	0 to 5% v/v	-
		Methane	CH_4	0 to 4% v/v	-
☠	Infrared technology provides long-term stability, minimising calibration and maintenance	Methane	CH_4	0 to 100% LEL	-
		Methane	CH_4	0 to 5% v/v	-
		Methane	CH_4	0 to 100% v/v	-
		Carbon Dioxide	CO_2	0 to 2% v/v	-
		Carbon Dioxide	CO_2	0 to 5% v/v	-
		Carbon Dioxide	CO_2	0 to 100% v/v	-

Technical Data

Operating Temperature Range:	-20 to +40°C
Humidity:	90% RH, non-condensing
Storage Temperature Limits:	-20 to +60°C
Housing Materials:	Reinforced polymer EMC protected and proof against surface electrostatic charge
Protection Classification:	Dust and waterproof to IP65. Gas port: IP54
Weight:	550 g
Mounting:	Two 6.5 mm diameter fixing holes (Unistrut 6946 compatible)
Visual Alarm:	Optional built-in visual alarms can be setup to operate at two adjustable setpoints