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SENTRO XX DATA SHEET

General Purpose



FEATURES

- Main programmable SENTRO X Controller with OLED graphic display and keypad
- Integral output signals: RS485 MODBUS, 4 mA to 20 mA and 0.4 V to 2 V
- Optional dual relay output relay cards with programmable alarm functions
- Optional power-over-ethernet (PoE) ethernet card
- Optional integrated A/V alarm beacon for local area warning
- Programmable Setpoint monitoring functions with assignable warnings and alarm
- Programmable STEL and TWA monitoring functions on selected toxic gas sensors
- Plug-in calibrated gas sensing gBlocs for a range of oxygen, toxic and flammable gas
- Optional remote gas sensor configuration with interconnecting flexible armoured conduit with 4-core cable

PRODUCT OVERVIEW

TX6310 SENTRO X Controller with integral gas sensor

This is the main control unit within the **SENTRO X Gas Detector** suite, housing the central intelligence of the gas detection system. Designed to the rugged standards for direct operation in heavy industrial applications.



SENTRO X Controller

TX6320 Remote Gas Sensor

Data from the remote gas sensor is transmitted to the **SENTRO X Controller**, which can be mounted in a more accessible and convenient location, up to 10 metres away from the gas detection area.



TX6320 Remote Gas Sensor interfacing with a

SENTRO X Controller

TX6310 SENTRO X Controller with integrated audio/visual (A/V) alarm

Local area A/V alarm, with high brightness LEDs and loud sounder.

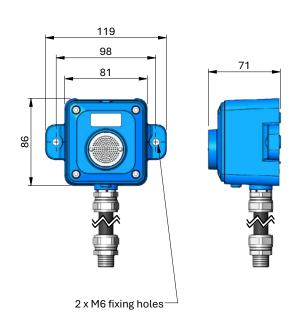


with an A/V alarm fitted

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DIMENSIONS





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TECHNICAL SPECIFICATION

| Operating temperature | -20 °C to +40 °C | | |
|----------------------------|---|--|--|
| Storage temperature limits | -20 °C to +60 °C | | |
| Humidity | 90% RH non-condensing | | |
| Housing materials | Reinforced PC/ABS polymer EMC protected and proof against surface electrostatic discharge | | |
| | TX6310 SENTRO X Controller: IP65 | | |
| Ingress protection | TX6320 Remote Sensor: IP65 A/V alarm: IP65 | | |
| Net weight | TX6310 SENTRO X Controller : 775 g (maximum weight) TX6320 Remote Sensor: 215 g | | |
| Mounting | TX6310 SENTRO X Controller : 2 x M8 fixing holes (unistrut compatible) | | |
| Mounting | TX6320 Remote Sensor:2 x M6 fixing holes (unistrut compatible) | | |
| Connections | TX6310 SENTRO X Controller: 4 x threaded M20 cable entries provided with 2 x PVC cable glands and 2 x blanking plugs 1 x threaded M16 cable entry (for Remote Sensor) TX6320 Remote Sensor: M16 cable entry provided with stainless steel cable gland (for connection to SENTRO X Controller) | | |
| Information display | Graphic OLED | | |
| PoE Supply voltage | 16 V to 30 V DC | | |

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ELECTRICAL DETAILS

| Electrical connections | 5 mm pitch lever lock terminals |
|---------------------------------------|---|
| Conductors | Max. 2 per terminal |
| Conductor size | Nominal 2.5 mm², 14 AWG (4 mm² maximum) |
| Supply voltage | Maximum: 30 V Minimum: 16 V |
| 4 mA to 20 mA max. line load at 9.5 V | Maximum: 526 Ohms |
| 0.4 V to 2 V min. line load | Minimum: 140 Ohms |

Current consumption details

1 x Relay card (2 Relays energised)

| Input voltage | Typical current draw |
|---------------|---------------------------|
| Minimum 16 V | +25 mA |
| Minimum 16 V | 75 mA |
| | |
| Minimum 16 V | +55 mA |
| | Minimum 16 V Minimum 16 V |

+80 mA

+40 mA

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Minimum 16 V

Minimum 16 V

gBlocs (Gas)

Ethernet card (10 Mbs)

| Electrochemical | Minimum 16 V | +25 mA |
|-----------------|--------------|--------|
| Pellistor | Minimum 16 V | +45 mA |
| Infrared | Minimum 16 V | +65 mA |

Note: Current consumption details are based on minimum input voltage.

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ORDER OPTIONS

TX6310 SENTRO X Controller

| Option | Certification | Option | Cover | Option | A/V alarm | Option | Extension card |
|--------|--------------------|--------|-------------|--------|------------|--------|----------------|
| 00 | General Purpose | 01 | Gas Inlet | 00 | Not fitted | 00 | None |
| | | 02 | Blank cover | 01 | Fitted | 01 | 1 x Dual Relay |
| | | | | | | 02 | 2 x Dual Relay |
| | | | | | | 03 | 1 x Ethernet |
| | | | | | | 04 | 1x Dual Relay |
| | | | | | | - | 1 x Ethernet |

TX6320 Remote Sensor

Gas sensors may be required to operate in restrictive and inaccessible locations. gBloc sensors can be mounted remotely from the **SENTRO X Controller** in a compact housing constructed to the same rugged standards as the **SENTRO X Controller**.

The Remote Sensor can be equipped with any standard gBloc in the range and uses the identical gas inlet cover with the same stainless-steel grille and moisture resistant membrane.

| Option | Certification | Option | Flex conduit/cable |
|--------|-----------------|--------|--------------------|
| 00 | General Purpose | 000 | Not fitted |
| | | 050 | 5 m |
| | | 100 | 10 m |

Note: Please refer to the P5600.1602 for the Intrinsically Safe **SENTRO X** data sheet and/or P5600.1603 for the **SENTRO X** gBloc data sheet.

DISCLAIMER

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At Trolex, we save lives.

We believe that no person should risk their life to earn a living.

Our aim is to become the world's leading name in health and safety technology, through pioneering products that provide real-world benefits to our customers, whenever workers operate in hazardous environments.

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