

Ribble Enviro
...everything gas detection

Data Sheet

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**ONE LIFE.
PROTECT IT.**



SENTRO X»

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

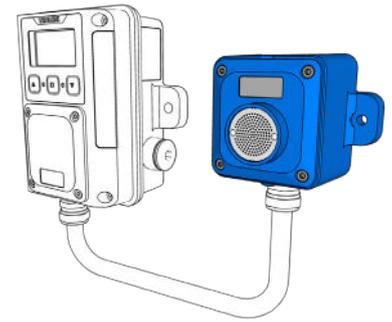
This is the main control unit within the **SENTRO X Gas Detector** suite, housing the central intelligence of the gas detection system. Designed to the rugged standards for direct operation in heavy industrial applications.



TX6310
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**

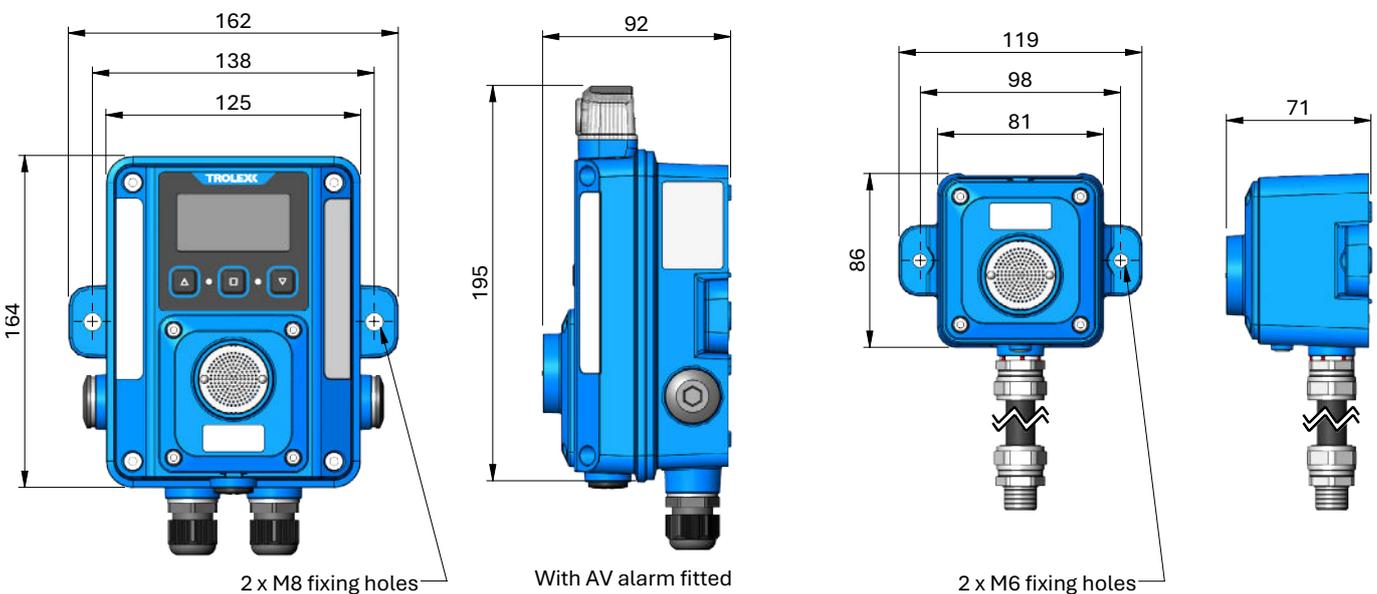
TX6310 SENTRO X Controller with integrated audio/visual (A/V) alarm

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



SENTRO X Controller with an A/V alarm fitted

DIMENSIONS



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
Ingress protection	TX6310 SENTRO X Controller : IP65 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 : <ul style="list-style-type: none"> • 2 x M8 fixing holes (unistrut compatible) TX6320 Remote Sensor: <ul style="list-style-type: none"> • 2 x M6 fixing holes (unistrut compatible)
Connections	TX6310 SENTRO X Controller : <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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

ELECTRICAL DETAILS

Electrical connections	5 mm pitch lever lock terminals
Conductors	Max. 2 per terminal
Conductor size	Nominal 2.5 mm ² , 14 AWG (4 mm ² 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

Component list	Input voltage	Typical current draw
SENTRO X Controller	Minimum 16 V	+25 mA
SENTRO X with Remote Sensor	Minimum 16 V	75 mA

Additional

A/V alarm (active)	Minimum 16 V	+55 mA
1 x Relay card (2 Relays energised)	Minimum 16 V	+80 mA
Ethernet card (10 Mbs)	Minimum 16 V	+40 mA

gBlocs (Gas)

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.

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	1 x 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.

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