

## Sentry Transportable SensorStation

**Environments:** Mining • Tunnelling • Confined working areas • Refuge chambers

### Features

- The Sentry Transportable SensorStation is a transportable version of our popular Sentro 8 SensorStation, developed to provide a flexible gas monitoring solution for use in hazardous environments
- Both mains and battery-powered versions are available
- Battery-powered versions can operate for up to 192 hours even at elevated temperature and humidity levels, and have rechargeable battery packs that can be easily swapped out in the field without the use of tools
- Mains-powered versions can operate from a range of input voltage from 85 to 265 V ac
- The Sentry features our intelligent, inter-changeable sensing modules that allow swap-out of pre-calibrated sensors in a matter of seconds, even in hazardous zones
- Extra-bright LED beacon and audible alarm warning
- Intrinsically safe design
- All functions can be programmed externally using the heavy-duty waterproof keypad
- Programmable alarm setpoints
- Security code to prevent unauthorised tampering with system settings

### Benefits

- One month maintenance cycle, sensor calibration is required once a month
- 192 hours battery life from a single battery charge, even at elevated temperature and humidity levels
- High performance, Sentry incorporates the latest sensor technology for high accuracy, long-life and exceptional robustness in challenging environments
- Low maintenance costs, Sentry is XX% cheaper to maintain in labour costs alone, compared to other options
- Up to eight gases are monitored simultaneously without the need for complex system design



## Functional Overview

The TX6377 Sentry Transportable SensorStation is a self-contained transportable gas monitoring system with the Sentro eModule at its heart. The eModule is an intelligent standardised gas sensing module that detects a range of toxic and flammable gases. Dynamic data is stored within the eModule, together with the condition of the gas sensing element and its service history. Sentro eModules are installed to monitor up to eight different gases simultaneously.

The Sentry can be powered by a rechargeable sealed lead acid battery pack which is quickly and easily removed without the use of tools, for fast replacement.

The Sentry has a low maintenance requirement needing only a calibration and check every month.



eModule - fitted inside the Sentry - pre-calibrated with an easy click in/click out replacement

## Technical Information

Supply voltage:	Mains power at 85 to 265 V ac <b>OR</b> Removable 12 V sealed lead-acid battery pack
Battery usage between charges:	192 hours - more than one week
Battery life in storage:	36 months if stored at ambient temperature between 0 to 30°C (32 to 86°F) If stored at higher temperatures, replace more frequently
Alarm output:	Built-in visual alarms can be selected to operate at two adjustable set-points. 81 dB at 300 mm (12 inches)
Operating temperature range:	-10 to 40°C (14 to 104°F)
Humidity:	95%RH, non-condensing
Storage temperature limits:	-20 to 60°C (-4 to 140°F)
Housing materials:	Reinforced polymer EMC protected and proof against surface electrostatic charge Integral carrying handle, stainless steel skid-panel baseplate, top and back
Protection classification:	Housing dust and waterproof to IP65
Weight:	15 kg (33 lb)
Mounting:	Free-standing and transportable
Maintenance:	Every 1 month

## Sentro Sensing eModules

Sentro eModules are fitted to the Sentry. Each eModule has its own processor for intelligent data storage and signal conditioning circuits. The eModules will detect the most commonly occurring toxic and flammable gases, Carbon Dioxide, Carbon Monoxide, Methane and Oxygen. Sentro eModules are fitted to the Sentry in dedicated locations.

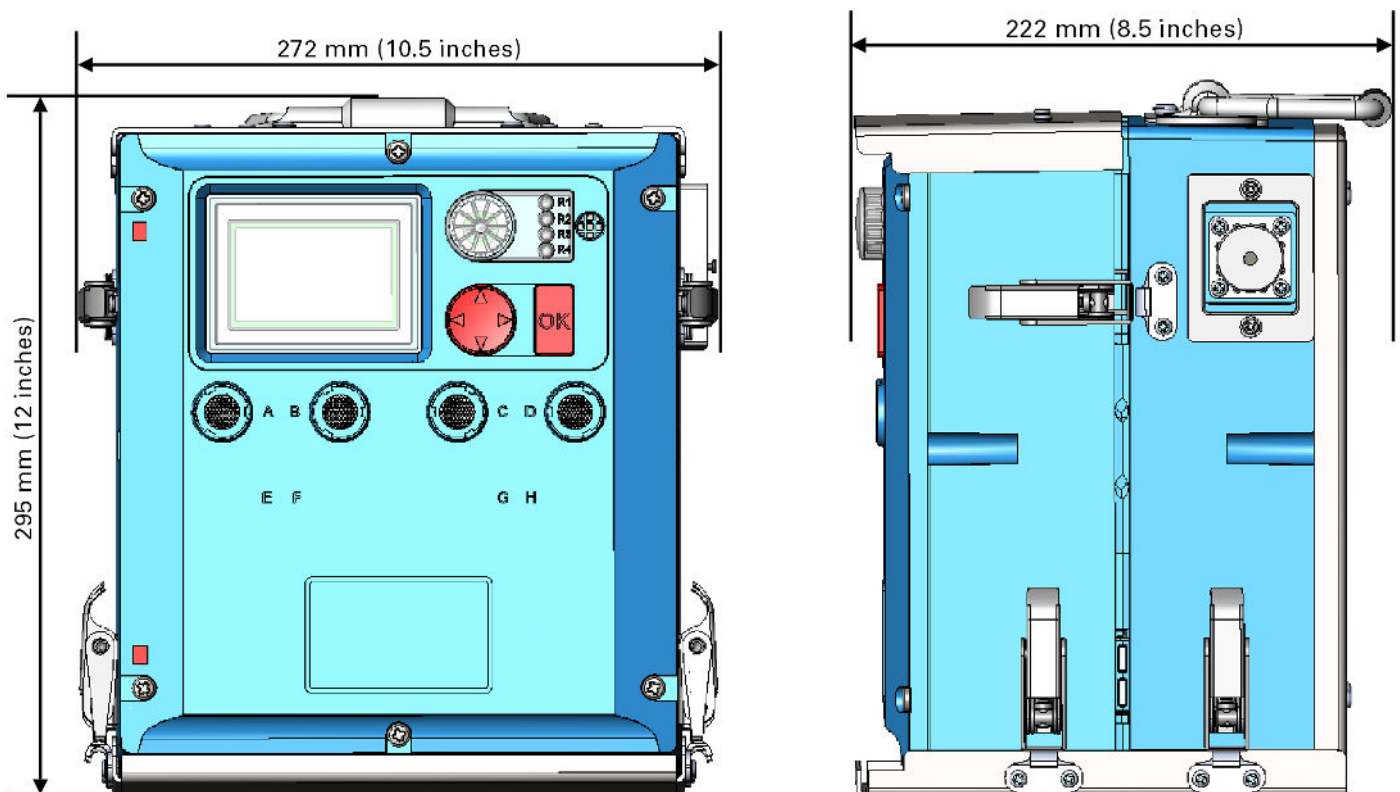
The modules are already calibrated so you can substitute them at any time with a replacement module. Each module contains its type identification and stores its full service history including gas identity, measuring range, data logging, set points, failure modes and alarm setting. All the acquired data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

There is no danger of inserting the wrong eModule in the wrong location. Each eModule comes pre-configured with insert codes and the Sentry automatically identifies the module that is inserted. Security coding is used to ensure that the same type of Sentro eModule is always used. The Sentry will recognise the module when it is inserted and will quickly configure itself for immediate operation.

eModule



## Dimensions



## Order Reference

TX6377	Sentry front half with a set of four eModules and manifold, Sentry rear half battery pack with Quick Start Guide, base plate, gas sample kit (manual gas sample pump, gas sample hoses and flow indicator) and User Manual
TX6377.10	Sentry front half with a set of four eModules and manifold, and User Manual
TX6377.50	Sentry rear half battery pack with Quick Start Guide
TX6377.51	Sentry battery charger - option for region specific power lead
TX6377.52	Gas sample kit - manual gas sample pump, gas sample hoses, flow indicator and storage bag
TX6377.53	Sentry base plate
TX6377.54	Sentry manifold
TX6350.01.247	Trolex Sentry eModule
TX6350.01.250.50S	Trolex Sentry eModule
TX6350.01.250.1000S	Trolex Sentry eModule
TX6350.01.257S	Trolex Sentry eModule



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## Certification



### United States of America (MSHA)

IS Approval (Title 30 CFR Part 18) – Approval No. 18-A140004-0  
Refuge Chamber Air Monitoring Component Approval (Title 30 CFR Section 7.507) – Approval No. LPA140001-0

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