

MONOTOX[®]TX MONOTOX[®]DUO GAS DETECTORS

ELECTROCHEMICAL SENSOR-BASED DETECTOR FOR TOXIC GASES AND OXYGEN



The Air-Met Scientific Monotox[®] TX and Monotox[®]DUO ranges offer a reliable, cost-effective method of monitoring the levels of oxygen or toxic gases in light-industrial applications.

Utilising tried-and-true electrochemical sensors from the world's leading manufacturers, the Monotox TX can be configured to monitor up to 2 gas hazards simultaneously. With dual analogue or Modbus outputs available, the TX range can be easily retrofitted to an existing gas detection system or form part of a new installation that is readily integrated into a life-safety or building management system.

The TX and DUO monitors are capable of autonomous operation, controlling a local area strobe / siren by way of 2 open-collector outputs and programmable alarm thresholds, greatly reducing installation costs and making it ideal for small installations. An optional modem can provide SMS or email alerts at a predetermined threshold.



FEATURES

- Multiple sensor and configuration options
- Dual sensor options
- Multiple, configurable outputs for Life-Safety System or BMS integration
- LED alarm and status annunciators
- Programmable alarm thresholds
- 2 x open collector outputs for control of local area strobe / sirens
- Alarm acknowledgement / mute button
- IP54 rated, unobtrusive enclosure design for integration with modern building aesthetics

BENEFITS

- Economic gas detection solution
- Simple installation
- Easily reconfigured for other sensor options

APPLICATIONS

- Light industry
- Cryogenic storage facilities
- Laboratories
- Medical facilities
- Universities
- Gas storage rooms
- Indoor Air Quality



TECHNICAL SPECIFICATIONS

GENERAL

Supply Voltage	12 - 36 VDC (24VDC Nominal)
Current Consumption	max. 60mA @ 24VDC (Dual sensor, no peripherals)
Sensor Configurations	1 - 2 Electrochemical Sensors
Analog Outputs	4 - 20mA, 0 - 20mA, 0 - 10VDC, (programmable) Max. load 800Ω @ 24VDC
Communications	RS485 (Modbus RTU) (optional)
Other Outputs	2 x open collector (programmable)
Alarms	Visual; LED (Alarm 1, Alarm 2)

SENSOR SPECIFICATIONS

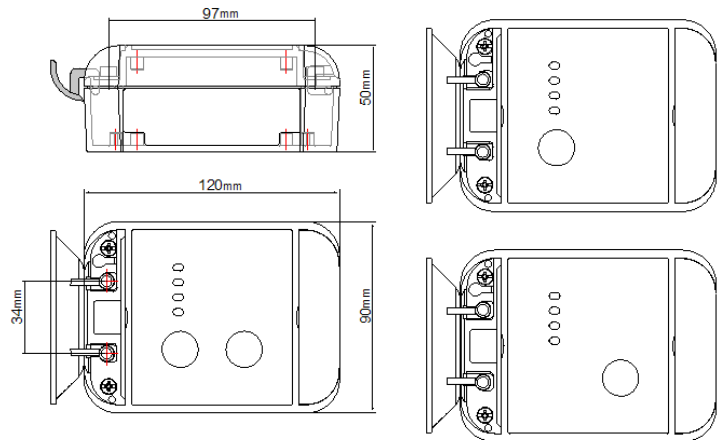
(OTHER GASES & RANGES AVAILABLE ON REQUEST)

Sensor	Available Sensor Ranges	Typical Response Time (T90)	Accuracy*
Oxygen	0-25% vol	<30 seconds	±1%
Carbon Monoxide	0-300ppm, 0-1000ppm	<30 seconds	±5%
Sulphur Dioxide	0-30ppm	<60 seconds	±5%
Hydrogen Sulphide	0-100ppm	<60 seconds	±5%
Nitrogen Dioxide	0-20ppm	<60 seconds	±5%
Nitric Oxide	0-100ppm	<60 seconds	±5%

*At conditions of calibration

INSTALLATION

Enclosure	ABS RAL 7035, Light Grey
Dimensions (mm)	120 x 90 x 50
Operating Temperature	0 - 50°C
Humidity	15 - 90% non-condensing
Pressure	800 – 1200 mbar
IP Rating	IP54 with supplied glands
Cable Entry Options	1 x M16 Gland, 2 x M16 Glands, Rear Entry
Cable Requirements	3 / 4 core shielded, 0.5mm ² (configuration dependent)



ACCESSORIES

PART NO.	ACCESSORY
96844636-R	Strobe/Siren (Red)
Maestro-E224	Modem/Logger
AMS-MTX-CALAPT	Calibration Adaptor
FF-100-.5	0.5/L Flow Regulator
AMSDATA12	Data Portal Subscription (12 Months)
-	Calibration Gas

