

## TQ 122 TOXIC GAS SENSOR FLAMEPROOF (Ex d) ATEX APPROVED

### FEATURES

- Robust stainless steel housing, makes these sensors suitable for hostile environments e.g. offshore, petrochemical works
- High thermal mass, provides exceptional zero stability
- Flameproof (Ex d) suitable for Zones 1 & 2 applications  
No IS barriers required
- Two-wire 4-20mA transducer Compatible with industry standard controllers



TQ122 shown with optional junction box.  
Part No 917-003D

The **TQ122** series is a range of flameproof (Ex d) toxic gas and Oxygen deficiency sensors for use in zone 1 and zone 2 hazardous areas. The **TQ122** sensors are configured as 2-wire 4-20mA transducers for interface with the TQ4000 or TQ8000 control panel series or Third Party control systems.

The sensors are extremely cost effective in all applications and do not require IS BARRIERS.

## OTHER FEATURES

- **HIGHLY STABLE**  
6 monthly calibration interval
- **LONG LIFE**  
Minimum 2 years in air @ STP
- **EASILY INSTALLED**  
M20 thread into Ex e junction box
- **INGRESS PROTECTION**  
IP55
- **RANGE OF ACCESSORIES**  
splashguards,  
dust filters,  
flow adaptors etc.
- **MATERIAL FIRE SAFETY**  
Low smoke, zero halogen  
wiring and junction box

TQ Environmental Limited, operate a policy of continual product development which means the specification is subject to change without prior notice.

For full assistance with your application contact TQ Environmental Limited



Cert No. LRQ 0958602

D3-122Tox-0315

SPECIFICATION	
Dimensions	Body:- 50mm x 50mm diameter Thread:- 20mm x M20
Weight	580g
Sensor Type	Electrochemical cell
Operating Voltage	12/24V d.c. 4-20mA loop powered
Sensor T90 Response	O <sub>2</sub> ,10s. CO,35s. H <sub>2</sub> , 60s. SO <sub>2</sub> ,30s.
Operating Pressure	900-1100mbar
Operating Temperature	-20oC to +40oC
Operating Humidity	15-90% RH non condensing
Construction	316 Stainless Steel
Protection Category	IP55
Cabling	2-wire (1.5mm <sup>2</sup> SWA)
Sensor Lifetime	2 years in air @ STP
Repeatability	1% of signal
Approval	II 2G Ex d IIC T5 (Ta= -20°C to +40°C) Ex d IIC T6 (Ta= -20°C to +30°C))
Certificate No	Sira 03ATEX1304X

TOXIC SENSORS		
PART No.		ITEM
122-001	Oxygen sensor	0-25%
122-002	Carbon Monoxide sensor	0-1000ppm
122-003	Hydrogen Sulphide sensor	0-50ppm
122-004	Sulphur Dioxide sensor	0-20ppm
122-007	Nitrous Oxide sensor	0-100ppm
122-213	Ammonia sensor	0-1000ppm
	Other Gasses, Ranges on request. Please contact TQ sales office for further details.	
122-013		Gassing cap and flow through adaptor
120-005		Collector Cone and Adapter
301-002		122 Weather protector
122-024		Deck mounted st/st Weather Guard
122-010		Remote Gassing Adapter
122-019		Duct Mounting Kit
917-003D		Ex e Junction Box

Nominal sensor ranges - other ranges on request

FLAMMABLE SENSORS		
PART No.		ITEM
122-210	0-100% LEL	Methane Bridge O/P
122-211	0-100% LEL	Petrol Vapor
122-212	0-20% LEL (30,000 ppm)	Ammonia
122-215	0-100% LEL	Hydrogen
Contact TQ Environmental for complete gas list		