

## TQ4300 MULTIPOINT MULTI GAS SAMPLING SYSTEM

### SPECIFICATION

## FEATURES

- Low cost solution to multipoint detection
- Can monitor single gas or up to 4 gases simultaneously
- Minimal recalibration required in service
- Highly stable infra-red gas analyser (for Hydrocarbons, CO<sub>2</sub> & other gases).
- Ease of installation and maintenance
- Pre-programmable with zone identifications
- 16 zone alarm relays, expandable to 24
- Target gas / system can be varied to suit the application
- Multi-point sampling capability for 1 to 24 points



The **TQ4300** system is a compact, low cost solution to multipoint gas detection. The system is available with a range of advanced ultra-stable infra-red gas analysers or other suitable technologies depending on the gas type. Requiring minimal calibration in service. With proven reliability and minimal maintenance the **TQ4300** is designed for both industrial and commercial use. The **TQ4300** can monitor up to 4 gases simultaneously. Flammable, Oxygen and H<sub>2</sub>S for example in confined space or Water treatment applications.

## APPLICATIONS

- Water Treatment Works
- Bulk Storage
- Breweries
- Landfill Sites
- Confined Space Applications
- Refrigeration

Infra-red systems have a modulated broadband infra-red source to allow the detection of many types of gases such as Hydrocarbons, refrigerants and Carbon Dioxide.

Other sensors can be incorporated within the system, such as electrochemical cells providing the customer a low cost multi-point gas detection system for almost any application.

Expanding with additional alarm relays for full channel, zone alarms.

TQ Environmental Limited, operate a policy of continual product development which



Cert No. LRQ 0958602  
D3-4300-0315

The equipment samples from up to 24 points and analyses the gas sequentially from each point in turn. Each gas sample is conditioned by passing it over filters, water "knock out" pots and particulate filters, to ensure that the reliability of the gas analyser is not compromised.

The system requires a universal 100-250 Vac power supply rated at 5 amps. Connection of the sample lines completes self contained operation.

Dimensions	w: 600 h: 600 d: 210 (mm)
Weight, single gas	20kg
Tubing Connection	6mm/4mm flexible
Sample Gas Flow	0-8 Litres/minute
Electrical Supply	Universal 110-250 Vac
Detection Technique	Infra-Red and others
Gases Measured	Typically Flammable and Toxic gases
Measurement Ranges	LEL or PPM ranges depending on gas
Accuracy	±5%
Response Times	Typically T90 <7s
Display	2 Line, alpha-numeric, 40, back lit LCD
Controls	Programmable Zone ID, red/green alarm LED's, front panel push buttons
Alarm Signals	2 Configurable SPCO volt free relays, up to 8A @ 240V AC and fault relay. Expandable with 16 relay output card
Output Signals	2 x 4-20mA analogue linear outputs MODBUS serial communications
Temperature	-10 <sup>0</sup> C to +45 <sup>0</sup> C
Humidity	0-95%RH
Pressure/Temp Compensation	Internal Automatic

## PARTS LIST

8 Channel, Single Gas ( nominally CH <sub>4</sub> )	370-553
16 Channel, Single Gas ( nominally CH <sub>4</sub> )	370-551
16 Channel, Dual Gas ( CH <sub>4</sub> , please specify )	370-551-001
16 Channel, Dual Gas ( CH <sub>4</sub> , please specify ) c/w 16 zone alarm relays	370-551-002
24 Channel Dual Gas, 25 Relay Version	370-550-005-R24
<b>Other options are available, please contact TQ for full details.</b>	
End of Line Filters, including fittings	430-030
6mm OD Sample Tubing	100-053

TQ Environmental Limited  
Flanshaw Way • Wakefield • West Yorkshire • WF2 9LP  
Tel: +44 (0)1924 380700 Fax: +44 (0)1924 361700  
Email: sales@tqenv.com Web: www.tqenv.com