

## TQ4000 4 CHANNEL CONTROL UNIT

### FEATURES

- Easy to install
- Low cost
- Reliable
- Minimum maintenance
- Field configuration from 1 - 4 channels
- Easy to calibrate
- Alphanumeric backlit LCD display
- User protected access to alarm set point controls available with battery backup in same box
- Excellent backup and technical support



The **TQ4000** unit is a 1-4 channel control unit for use in conjunction with toxic, flammable, Oxygen and other 4-20mA gas sensors. The unit has been designed and manufactured in the UK to offer a low cost, highly reliable solution to gas monitoring. The unit can be factory or field configured for 1 - 4 channels as toxic or flammable sensors or a combination of gas and other 4-20 mA sensors.

The TQ4000 is a wall mounted instrument, which provides an easily installed, low cost, reliable solution to monitoring 1-4 channels of various gas mixtures (combustible, toxic, Oxygen in any configuration).

The instrument is housed in a metal electrical enclosure and connection to the unit is by Klippon terminals via cable glands. All alarm set points, alarm inhibiting, span and zeroing operations can be performed in the field by authorised personnel using the included menu system.

Each channel has 3 user defined alarm thresholds. Audio and visual indication of alarm conditions are indicated on the front panel. Each channel is automatically read in turn and the gas concentration is displayed on an LCD display.

Fault conditions on the input sensors are monitored and a single pole change over (SPCO) relays indicate a fault condition. 7 further SPCO alarm relays are fully configurable for common, individual or zone alarms.

The TQ 4000 can provide 4-20mA outputs if required and a MODBUS output is available for remote monitoring.

A 24V DC output supply is available for external enunciators and can be powered from 24V DC or a universal 100 – 250 Vac supply. A Battery back up option is also available.

All units are supplied with a comprehensive manual detailing installation, maintenance and easy to follow instructions.

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

D3-4000-0315

## SPECIFICATION

Calibration	Via integral menu system		
Relays, Alarm relays rated 110/240V ac, 5A	1x Fault Common Alarm Level 1 Common Alarm Level 2 Common Alarm Level 3 4 x Individual Alarm relays All alarm relays are fully configurable for zone operation if required.		
Alarm Levels	3 No. per channel adjustable throughout sensor range (Access Protected)		
Inhibit	Failsafe max. 2 hours when selected 8 minutes per channel when calibrating.		
Detector Channels	1-4 Combustible/Toxic/Oxygen or P/B		
Dimensions Control Module	Height 350mm	Width 330mm	Depth 90mm
Terminal Enclosure	3 way Klippon		
Cable Entry	Bottom/Top gland plates as standard		
Front panel control	Audible alarm mute, reset and hold		
Internal and Adjustable Controls	Zero, Span, Alarm Levels		
Indicators	Power on Green LED Gas Alarm 1, 2 & 3 Red LED Fault Alarm Amber LED Over Range Red LED Channel Green LED Inhibit Amber LED		
Display	Alphanumeric LCD dot-matrix back lit		
Audible Alarm	Gas/Fault 80dB		
Output Signals	4 x 4-20mA analogue linear outputs MODBUS serial communications		
Power Supply	Universal input 100 to 250 V ac supply or 24V nominal		
Power Consumption	Normal operating conditions 3 Watts		
Calibration	With 3 push buttons and the front panel display		

A choice of sensors include TQ122. GD129. GD131. GD231 & GD233

## PARTS LIST

370-4000	Control unit TQ4000 1-4 channel, universal mains voltage
370-4020	Control unit TQ4000 1-4 channel, universal mains voltage, c/w battery backup.
4003	Drive card – Pellistor (TQ 122-210 sensor)
	TQ4000 instruction manual