

## TQ8000 Touch MULTI-CHANNEL CONTROL UNIT

### FEATURES

- 7" TFT display with touch screen control for operation and menu access.
- Easy to install, reliable with minimum maintenance and simple calibration.
- Field configurable on all parameters and password protected.
- Monitors a wide range of gases with both 4-20 mA and 3 wire catalytic sensors.
- 24v DC, and volt free alarm relays, with 3 Alarm levels per channel
- MODBUS outputs for remote indication to BMS, Repeaters Panels or Remote Relays
- Internal Data Logging on all channels



The New **TQ8000 Touch** is an 8 channel stand-alone control unit, which can be expanded up to 48 channels for larger installations. Capable of monitoring inputs from a wide variety of TQ Environmental Gas Detectors and many other 4-20mA output devices, such as temperature, pressure and PH sensors

7" TFT display provides clear indication of sensor states, Touch screen control provided easy access to all operator controls and menu options. External Keyboard and web pages can also be incorporated.

The **TQ8000 Touch** provides 16 configurable relays, which can be utilised as 'volt free' or 24V DC, to indicate alarms or operate remote devices. Expansion relay cards can also be fitted to provide up to 48 individual alarm contacts for larger systems.

In addition to the alarm relay contacts the **TQ8000 Touch** system can also provide MODBUS outputs for integration into 3<sup>rd</sup> party BMS remote monitoring systems, remote displays or repeater panels.

The 8 TQ8000 Touch is housed in a rugged IP54 rated ABS, wall mounted enclosure. With entry for field cabling through the bottom gland plate.

7" TFT Touch control display panel provides function and menu access to facilitate quick set up and adjustment.

The alarm and fault status of each channel is displayed on the front panel display.

Each channel has 3 user defined alarm thresholds, which operate the front panel indication, the internal sounder and assigned relays.

Operator interface controls are available for the adjustment of alarm set points, channel inhibit, relays, calibration span and zero. These controls are customer configurable and password protected.

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

Can be provided with separate battery back up.

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.



Cert No. LRQ 0958602

TQ8000 T-D2-0521

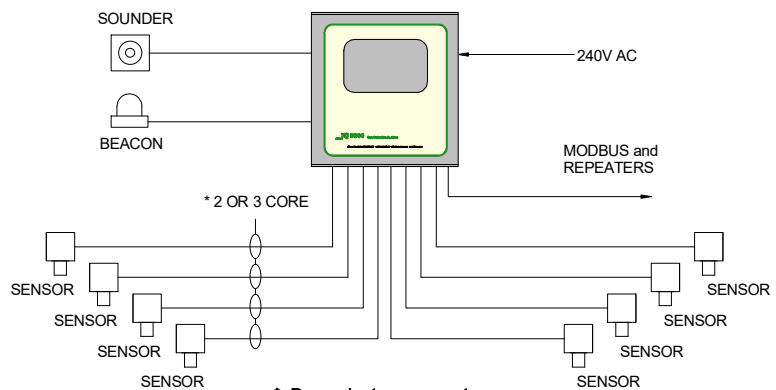
## SPECIFICATION

Typical Dimensions	8 Channel	Height	Width	Depth
	16 Channel	340 mm	326 mm	160 mm
	24 Channel	600 mm	600 mm	210 mm
	32 Channel	600 mm	600 mm	210 mm
		800 mm	600 mm	250 mm
Enclosure Details	ABS, EMC shielded enclosure with bottom entry gland plate for 8 channel panel. Larger panels are a Steel Enclosures with bottom entry gland plates.			
Power Input	Universal; 85 to 254 Volts ac 50/60Hz (24V dc on request) @ 100VA ( 8 channel system )			
Display and indications	7" LCD TFT 1024x600, captive touch display for indication of concentration, Gas Alarms 1, 2 & 3, Fault and Inhibit.			
Front Panel Control	'Reset', 'Hold', & 'Mute' on channels and alarms plus additional password protected channel functions			
Calibration	Onscreen menu, password protected with Adjustable Zero, Span, AL1, AL2 and AL3 levels			
Alarms	Field adjustable levels on AL1, AL2 & AL3 for individual channels. Adjustable between 0% & 100% of FSD.			
Alarm Relays	Fully configurable alarm and fault relays RL1 to RL16, Expandable up to 40 individual / configurable relays. Selectable as normally energized / healthy for fail safe alarms. SPCO rated, 24 vdc @ 2A. with test facility			
Inhibit	Evoked on individual channel outputs when in calibration and channel selectable. Operates 'Inhibit indicator and 'Fault' relay			
Data Logging	Selectable logging interval on all channels for concentration and alarm history, via micro-SD card.			
Additional outputs	RS 485, MODBUS enabled for remote monitoring via full control mimic panel or 3 <sup>rd</sup> party monitoring.			
Internal Audible	Gas/Fault 80dB			

## PART LIST

8 Channel, with 16 relay alarm card	370-600-08
16 Channel, with 16 relay alarm card	370-600-16
24 Channel, with 16 relay alarm card	370-600-24
32 Channel, with 16 relay alarm card	370-600-32
Please consult TQ Environmental for other options including, battery backup, additional relays, and remote display panels.	

## TYPICAL INSTALLATION



Choice of sensors include GD131, GD133 TQ122.\*\*\* for Flammable, Toxic and Refrigerants.

TQ Environmental Limited  
 Silkwood Court • Wakefield • West Yorkshire • WF5 9TP  
 Tel: +44 (0)1924 271013 Fax: +44 (0)1924 264420  
 Email: sales@tqenv.com Web: www.tqenv.com

