Polytron TX

The Polytron TX is an economical, microprocessor-based gas detector for continuous monitoring of toxic gases and oxygen in ambient air. Non-intrusive calibration and maintenance is performed using a magnetic wand to access the software through the enclosure window – no need to open the enclosure (and obtain special area permits) to perform routine calibrations.

Polytron TX:
Electrochemical sensor to detect toxic gases and Oxygen.

Easy to install

The enclosure provides two mounting holes. For easy wiring, bezel and electronics is one unit, and can be pulled out. The two wire cable, fed through a sealed conduit, is terminated in a pluggable connector at the printed circuit board.

One man calibration

All setup and maintenance is performed without opening the transmitter or declassifying the hazardous area. Tapping a magnetic wand at the three buttons through the window gives full access to the menu and the calibration procedure. No need for an additional handheld terminal.

DraegerSensor technology

High sensitivity, long term stability and no false alarms are the hallmark of the new and improved third generation of sensors. Sensors are the keystones of any gas detection system. Fastest response to the target gas combined with minimal interference by other gases or environmental influences (no false alarms) as well as the sensor life-time determine the reliability and the operating cost of a system.

Features and Benefits:

- Economical
- Non-intrusive calibration
- DraegerSensor technology
- Simple software menu

ORDER INFORMATION

Polytron TX without sensor; UL, CSA, ATEX, suitable for CO, H_2S, O_2	45 43 405
Polytron TX without sensor; general purpose, suitable for Cl_2, H_2, NH_3, NO_2, SO_2	45 43 435
DraegerSensor CO	68 09 605
DraegerSensor H_2S	68 09 610
DraegerSensor O_2	68 09 630
DraegerSensor Cl_2	68 09 665
DraegerSensor H_2	68 09 685
DraegerSensor NH_3 LC	68 09 680
DraegerSensor NH_3 HC	68 09 645
DraegerSensor NO_2	68 09 655
DraegerSensor SO_2	68 09 660
Magnetic wand for menu access	45 43 428

Dräger safety

TECHNICAL DATA

Type	Explosion proof transmitter	
Gases and Ranges	Toxic gases and Oxygen in pre-set, user selectable ranges	
	CO	0 to 100 / 300 / 500 ppm
	H_2S	0 to 20 / 50 / 100 ppm
	O_2	0 to 25 Vol%
	Cl_2	0 to 5 ppm *)
	H_2	0 to 500 ppm *)
	NH_3	0 to 100 / 300 / 500 ppm *)
	NO_2	0 to 20 ppm *)
	SO_2	0 to 20 ppm *)
Display	3 digit LCD, resolution varies with the range	
Signal Output	Normal operation	4 to 20 mA
	Maintenance	4 mA ± 1 mA 1 Hz modulation, or steady 3 mA; user selectable
	Fault	< 2 mA
Supply Voltage	16 to 30 V DC, 2-wire	
Ambient Conditions	Temperature	- 40 to + 150 °F / - 40 to + 65 °C
	Pressure	20.7 to 38.4 inch Hg / 700 to 1300 mbar
	Humidity	0 to 100 %RH (see also sensor data sheet)
Enclosure	Powder-coated aluminum transmitter housing, Stainless steel sensor housing	
Enclosure rating	NEMA 4X & 7, IP 66; 3/4" NPT female conduit entry	
Size (h x w x d, approx.)	9.5" x 4.5" x 4" / 245 x 115 x 100 mm	
Weight (approx.)	5.7 lbs / 2.6 kg	
Approvals	UL, CSA	Class I, Div 1, Group C, D
	ATEX	II 2GD EEx d IIB + H2 T6/T5, - 40 ≤ T_{amb} ≤ + 50 / + 65 °C
	CE-mark	electromagnetic compatibility (directive 89/336/EEC)

*) general purpose only

90 44 524 | PI |066 | CR-PR | Printed in USA | chlorine free - ecological | subject to modification!

Thank you for reading this data sheet.

For pricing or for further information, please contact us at our UK Office, using the details below.

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