

# Dräger Polytron TX Fixed Gas Detector

The Dräger 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.



ST-1524-2006

## 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.

## DRÄGERSENSOR 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
- DrägerSensor technology
- Simple software menu

## ORDER INFORMATION

Dräger Polytron TX without sensor; UL, CSA, ATEX, suitable for CO, H <sub>2</sub> S, O <sub>2</sub>	45 43 405
Dräger Polytron TX without sensor; general purpose, suitable for Cl <sub>2</sub> , H <sub>2</sub> , NH <sub>3</sub> , NO <sub>2</sub> , SO <sub>2</sub>	45 43 435
DrägerSensor CO	68 09 605
DrägerSensor H <sub>2</sub> S	68 09 610
DrägerSensor O <sub>2</sub>	68 09 630
DrägerSensor Cl <sub>2</sub>	68 09 665
DrägerSensor H <sub>2</sub>	68 09 685
DrägerSensor NH <sub>3</sub> LC	68 09 680
DrägerSensor NH <sub>3</sub> HC	68 09 645
DrägerSensor NO <sub>2</sub>	68 09 655
DrägerSensor SO <sub>2</sub>	68 09 660
Magnetic wand for menu access	45 43 428



ST-1591-2006

**Dräger Polytron TX**  
Electrochemical sensor to detect toxic gases and oxygen.

## 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 <sub>2</sub> S 0 to 20 / 50 / 100 ppm
	O <sub>2</sub> 0 to 25 Vol%
	Cl <sub>2</sub> 0 to 5 ppm*
	H <sub>2</sub> 0 to 500 ppm*
	NH <sub>3</sub> 0 to 100 / 300 / 500 ppm*
	NO <sub>2</sub> 0 to 20 ppm*
	SO <sub>2</sub> 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 2G EEx d IIB + H2 T6/T5, II 2D T85/T100°C; - 40 ≤ Tamb ≤ + 50 / + 65 °C
	CE-mark electromagnetic compatibility (directive 89/336/EEC)

\* general purpose only

**HEADQUARTERS:**  
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