

# Dräger Polytron L Fixed gas detector

Dräger Polytron L is a gas detector for continuous monitoring of either chlorine (Cl<sub>2</sub>) or hydrogen fluoride (HF) and hydrogen chloride (HCl) in ambient air. The transmitter is a rugged leak detector for harsh industrial environments. It contains a durable electrochemical sensor with fast response.



ST-7564-2006

## FIELD PROVEN SENSOR TECHNOLOGY

With its durable electrochemical DrägerSensor, the transmitter achieves a fast response. The DrägerSensor technology is field proven since decades even in harsh environments. The long life-time can even be extended with a simple electrolyte refill.

## EXPLOSION PROTECTION

The Dräger Polytron L is approved according to the ATEX directive. This allows that the intrinsically safe transmitter may be used in potentially explosive gas atmospheres (Zone 1 and 2). The approval cov-

ers even Explosion Group IIC for hydrogen and acetylene.

## INDUSTRY STANDARD INTERFACING

The transmitter converts the DrägerSensor signal into an industry standard 4 to 20 mA signal proportional to the gas concentration. The output signal transmits via the two-wire power loop. Combined with a suitable 4 to 20 mA controller, the Dräger Polytron L transmitter satisfies the customers' requirements for maximum safety and system availability.



ST-7571-2006

Dräger Polytron L

## ORDER INFORMATION

Dräger Polytron L EEx 0 to 5 ppm, for DrägerSensor Cl <sub>2</sub> L	83 14 218
Dräger Polytron L EEx 0 to 10 ppm, for DrägerSensor Cl <sub>2</sub> L	83 14 219
Dräger Polytron L EEx 0 to 50 ppm, for DrägerSensor Cl <sub>2</sub> L	83 14 220
DrägerSensor Cl <sub>2</sub> L	68 09 370
Start-up kit Cl <sub>2</sub> for DrägerSensor Cl <sub>2</sub> L	68 09 382
Testset for transmitter Cl <sub>2</sub> L (Testbottle and 2 syringes for functional test)	42 02 107
Chemical test set Cl <sub>2</sub> L (Chemicals for min. 6 functional tests)	42 02 120
Dräger Polytron L EEx 0 to 20 ppm, for DrägerSensor HF/HCl L	83 14 233
DrägerSensor HF/HCl L	68 09 360
Start-up kit HF/HCl for DrägerSensor HF/HCl L	68 09 381
Testset for transmitter HF/HCl L (Testbottle)	68 08 085
Chemical test set HF/HCl L (Chemicals for min. 20 functional tests)	68 08 084

## TECHNICAL DATA

Type	Intrinsically safe transmitter for electrochemical sensors
Gases and Ranges	Chlorine 0 to 5/10/50 ppm Hydrogen Fluoride/Hydrogen Chloride 0 to 20 ppm
Output	Analog 4 to 20 mA, 2-wire Fault signal < 3.2 mA
Power Supply	8 to 28 V DC; typically 100 mW
Ambient Conditions	(Transmitter only. For sensors see separate sensor data sheet) Temperature -20 to +65 °C / -5 to 150 °F Humidity 0 to 100 %RH, non condensing
Enclosure	GRP, IP 53, M 16 cable gland
Dimensions	210 mm x 110 mm x 110 mm / 8.3" x 4.3" x 4.3" (H x W x D)
Weight	Approx. 0.8 kg / 1.8 lbs.
Approvals	ATEX II 2G EEx ia IIC T4 CE marking: RFI compatibility (directive 89/336/EEC)

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