

Dräger Polytron 3500 Fixed Gas Detector

The Dräger Polytron 3500 is a transmitter for the continuous monitoring of NF_3 and PFCs (perfluoro compounds) e.g. C_4F_6 , C_5F_8 in ambient air. It is the basic version of the new Polytron Pyrolyzer family from Dräger. The transmitter provides all necessary functions like sampling, processing and analyzing in one housing.



A gas sample is drawn in by an internal pump and fed through an oven-type device which cracks the target gas at high temperature. Subsequently the gaseous exhaust will be measured by means of an electrochemical DrägerSensor.

SIMPLE, QUICK INSTALLATION

A two component concept comprising a docking station and a main unit saves time and money. The docking station can be electrically pre-installed. At commissioning the Dräger Polytron 3500 main unit is connected by a quick-lock mechanism to the docking station. After warm up the system is ready for operation. The design supports the demand for a small footprint where space is limited.

RELIABLE MEASUREMENT

Through new technological advances in electronic design and a shielded full metal housing, Dräger Safety was able to provide transmitters with unsurpassed RFI resistance. The use of durable and sturdy components for pumps and pyrolysis oven enables long reliable operation.

Selective electrochemical DrägerSensors provide a stable and long-lasting measurement of dedicated target substances with a fast response time. A unique branched flow system allows for a wide flow range from 0.5 to 1.3 l/min without interfering with the measurement performance. Two electronic flow monitors care for safe operation.

EASY OPERATION

The Pyrolyzer requires almost no handling, tuning or adjustments. The 4 to 20 mA output signal with additional special status signals can easily be connected to any controller system for further signal processing.



Dräger Polytron 3500
For the semiconductor industry.

TECHNICAL DATA

Type	Microprocessor-controlled transmitter with pump and oven
Gas and ranges	Nitrogen trifluoride NF ₃ CAS 7783-54-2 0 to 50 ppm Octafluorocyclopentene C ₅ F ₈ CAS 559-40-0 0 to 30 ppm Hexafluorobutadiene C ₄ F ₆ CAS 685-63-2 0 to 30 ppm
Default flow rate	1000 ml/min; tubing 4 mm ID, 6 mm OD / 1/4" OD
Output	Analog 4 to 20 mA Maintenance signal 3.4 mA Fault signal < 3.2 mA
Power supply	24 V DC ± 10%; 1.5 A
Ambient condition	Temperature 0 to 40 °C / 30 to 100 °F Humidity transmitter 0 to 99 %RH, non-condensing Humidity gas 20 to 90 %RH
Enclosure	IP 21
Size (HWD)	150 x 125 x 300 mm / 6" x 5" x 11.8"
Weight (approx.)	2.4 kg / 5.3 lbs
Approvals	CE mark electromagnetic compatibility (directive 89/336/EEC)

ORDER INFORMATION

Pyrolyzer docking station, one per transmitter		83 18 580
Dräger Polytron 3500	NF ₃	83 18 824
Dräger Polytron 3500	C ₅ F ₈	83 18 825
Dräger Polytron 3500	C ₄ F ₆	83 18 826