

IMS-ODOR



**On-line Monitoring Device for the precise
Quantification of Gasodor[®] S-Free[®] in Natural Gas**

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Stationary device to on-line monitor
Gasodor® S-Free® in Natural Gas



The IMS-ODOR is an independent and fully automatic working measurement device, which has particularly been developed to precisely quantify and transmit the concentration of Gasodor®-S-Free® in natural gas. Requested intervals of measurements can individually be set. Before each measurement the system carries out a self-calibration by the use of a certified calibration gas to achieve and secure maximum preciseness of the odorant concentration. The acquired data are transmitted via current loop of 0 or 4-20mA, a modem- or network connection to a control room. The instrument can further be operated through a remote control (on demand through G.A.S.). Beyond that up to 15,000 measurement values can be stored on the integrated compact flash card and be downloaded via USB (stick or cable connection). The 6,4" TFT colour display allows to visualize all data on-site and carry out measurements manually as well. On demand the IMS-ODOR can be equipped with touchpad and/or further additional sensors.

Technical Data

Enclosure: 19"-compatible, protection category IP20, EMC
Dimensions: W x D x H: 449mm x 375mm x 177mm
Weight: 15,5 kg
Power: External: 100-240 V / 50-60 Hz, selectable Internal: 24V DC
Display: 6,4" TFT-display
Steering: Angular momentum sensor
Interfaces: Modem, USB, ethernet, 0 or 4-20mA, relay for alarm
Processor: 400MHz x-scale
Data Storage: 1 GB compact-flash
Data Transmission: ultra-fast ADIO-board
Cooling Baseboard/Processor: Ventilator 24V, max. 5,5m ³ /h
Electrical Connections: 2x Sub-D 9-pin, 1x Sub-D 15-pin, 1x RJ45, 1x USB-A, 1x net connection
Gas Connections: 6 mm Swagelock for in- and outlets (calibration gas, air, flare and outlet)
Working Principle: Ion Mobility Spectrometry (IMS)
Ionisation: Radioactive Beta-ionisation (⁶³ Ni <100MBq)
Range: 4-23 mg/m ³ Gasodor® S-Free® in natural gas (adjustable according to customer request)
Precision: ± 2 mg/m ³
Calibration Gas: Gasodor® S-Free® in natural gas (acc. to chemical characteristics of natural gas type)
Automatic Mass Flow Control: CH ₄ , 6-200ml/min., 25-500mbar
Moisture Sensor: 0 to 100% rh, tolerance: +/- 1,8% rh
Flame Detector: Resistance thermometer 100mm Range: -50 to 600°C
Gas Pressure Sensor: 0-650 mbar relative, analog
Temperature Sensor: -40 to 120°C, tolerance: +/- 0,3°C
Barometric Sensor: 800 to 1,100 mbar absolute, digital
Gas Flow Sensors: 0 to 200ml/min, 0 - 6V