HTK 1120 Oil Vapor Sensor

Intelligent sensor system

Helps you to identify impurities

The HTK 1120 oil vapor sensor monitors the oil content of compressed air and gases permanently or for spot checks when used as portable unit.

Mode of operation

For best accuracy and long term stability, the HTK 1120 sensor applies an automatic calibration. Sensor contaminations and sensor life time are monitored and indicated to the user. An 'over range' detection removes the sampling air from the sensor to protect it against contamination.

The simple installation and outstanding performance makes the HTK 1120 the ideal choice when oil vapor content needs to be measured and monitored.

LEDs indicate if pre-set alarms are reached, or if filters and sensors need to be serviced. The service indications start blinking 4 weeks before expiring and turn on permanently when a service is immediately required.

- Power
- Alarm
- Service Sensor
- Service Filter

Benefits

- Can be used for permanent or in portable applications
- Measures down to 0.003 mg/m³
- Easy connection through sampling hose and quick connect
- Output signals: - 4 ... 20 mA
  - RS-485, Modbus RTU
  - Relais (NO)

- PID sensor for highest accuracy
- Service and Alarm indication through LED
- Connectable to our displays and data loggers as well as third parties displays and control units
- Integrated 5" touch screen and data logger (option)
- Version with integrated pump for ambient measurements

Anwendungsbereiche

- Medical air
- Pharmaceuticals
- Breathable air for rescue workers and divers
- Food and beverage

- Semiconductor fabs
- Conveyance of hygroscopic food
- High tech processes

We control GASES - since 1978

DNV·GL
QUALITY SYSTEM CERTIFICATION
ISO 9001:2015

HTK®
HAMBURG

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Analysers from HTK

We are your partner for tailor-made gas analysis technology

The use of fixed and mobile gas analysers is widespread in many industries, and the demand continues to grow.

HTK Hamburg develops and builds equipment to provide effective solutions, from the small manual analyser up to the complex analysis unit in the food sector, welding & cutting and in many other industries.

Planning, manufacturing, service and calibrating analysers for the measuring gases such as O2, CO2, H2, SF6 - and many more - isn't a challenge for us; it's our mission each and every day.

Our aim is to ensure safe, consistent and accurate analysis in your process - thus maintaining quality.
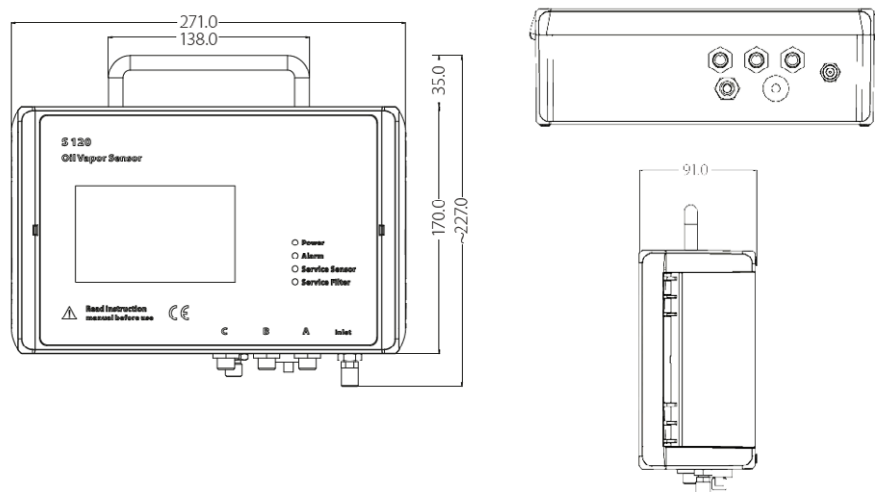
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Technical Data

Measuring medium	Compressed air and gases free of corrosive, aggressive, caustic and flammable constituents
Measuring range	0.003 ... 10.00 mg/m³ (based on 1000 hPa (a), 20°C, 0% relative humidity)
Resolution	0.001 mg/m³
Sensor type	PID (photoionization detector)
Detection limit	0.003 mg/m³
Accuracy	5% of reading ±0.003 mg/m³
Operating pressure	3 ... 15 barg (higher pressure on request) 600 ... 1070 hPa abs. (ambient version only)
Gas humidity	< 40% rel. humidity, no condensation
Sample flow rate	< 2 l/min, measuring gas is released to ambient
Gas connection	6 mm quick connect
Electrical connection	M12 connector
Sensor life time	6000 operating hours. Will be indicated. Sensor exchange by service
Gas temperature	-20 ... +50°C (at inlet)
Ambient conditions	-20 ... +50°C
Transport temperature	-30 ... +70°C
Output signal	4 ... 20 mA (0 ... 10 mg/ m³) RS-485, Modbus/RTU Relay, NO, 60 VDC/1A
Power supply	24 VDC ± 5%, 10 W
Display & data logger	5" Touch Screen, 100 million values (option)
Application	Downstream of activated carbon filters Downstream of oil-free compressors. Wherever upstream drying and filtration is applied
Casing/dimensions	PC, Al-alloy, 271 x 205 x 91 mm
Classification	IP65
EMC	According to IEC 61326-1
Settings	Various sensor settings can be performed through our display units
Weight	2400 g
Sample rate	1 s

Dimension Drawing

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