OIL VAPOR SENSOR – OS 120

DESCRIPTION

The residual oil sensor OS 120 monitors oil content of compressed air and gases permanently or for spot checks when used as portable unit in conjunction with OS 551.

The simple installation and the outstanding performance make OS 120 the ideal choice when residual oil contents need to be measured and monitored.

Oil free compressed air is not an easy task to be achieved. Monitoring is a must in many industries and applications to avoid contaminations in products and risks for health of humans. OS 120 makes this monitoring task affordable and reliable.

APPLICATIONS [2]

- Air Compressor
- Pharmaceuticals
- Breathable air
- Food and beverage
- Medical engineering
- Electronics industry
- High tech processes

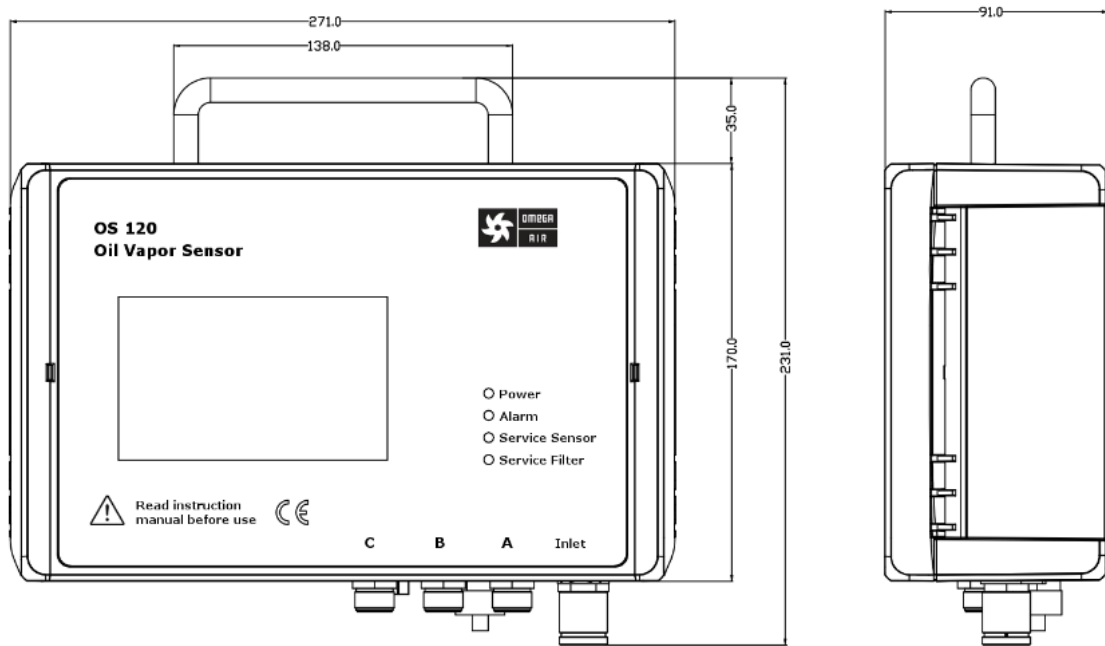[1] For any other technical gas please contact us or your local dealer
[2] OS 120 can be used in variety of applications. For applications not listed please contact us or your local dealer.

TECHNICAL SPECIFICATION

Measuring medium	Compressed air and gasses free of corrosive, aggressive, caustic and flammable constituents
Measuring range	0.003 … 10.00 mg/m^3 (based on 1000 hpa(a), 20°C, 0% relative humidity)
Resolution	0.001 mg/m^3
Sensor type	PID (photoionization detector)
Detection limit	0.003 mg/m^3
Accuracy	5% of reading ±0.003 mg/m^3
Operating pressure	3 … 15 barg (higher pressure on request)
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
Gas temperature	-20°C … +50°C (at inlet)
Ambient conditions	-20°C … +50°C
Transport temperature	-30°C … +70°C
Output signal	4 … 20 mA (0 … 10 mg/m^3) RS-485, Modbus RTU Relay : NO, 60 VDC / 1A
Power supply	24 VDC ±5%, 10 W
Display & data logger	5" touch screen (option), 100 milion values (option)

Application	Downstream of activated carbon filters Downstream of oil-free compressors Wherever upstream drying and filtration is applied
Casing	PC, Al alloy
Classification	IP65
EMC	According to IEC 61326-1
Weight	2400 g
Sample rate	1 s

DIMENSIONS

ORDERING

Order No.	Description
4000828	OS 120, 5" touch screen, 0.003 … 10 mg/m^3, 4 … 20 mA, RS-485, alarm output, 24 VDC supply, inc. power supply and transport case
4000933	OS 120, 0.003 … 10 mg/m^3, 4 … 20 mA, RSS-485, alarm output, connectable to OS 551, transport case, inc. power supply
4001009	OS 120, 5" touch screen, 0.003 … 10 mg/m^3, 4 … 20 mA, RS-485, alarm output, 24 VDC supply, inc. power supply

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