

## **S120**

# **Oil Vapor Monitor**



Opt. 1

Without Display

Opt. 2

With Display





ACCURATE RESULTS Latest PID senor technoloygy



TOUCH SCREEN For easy operation



**EASY INSTALLATION**Plug and Play
Solution



COMPACT DESIGN Fits into your application



DATA LOGGER Integrated as option



DEW POINT SENSOR Option: -100 ... +20 °C Td



#### Simple Installation – Outstanding Performance

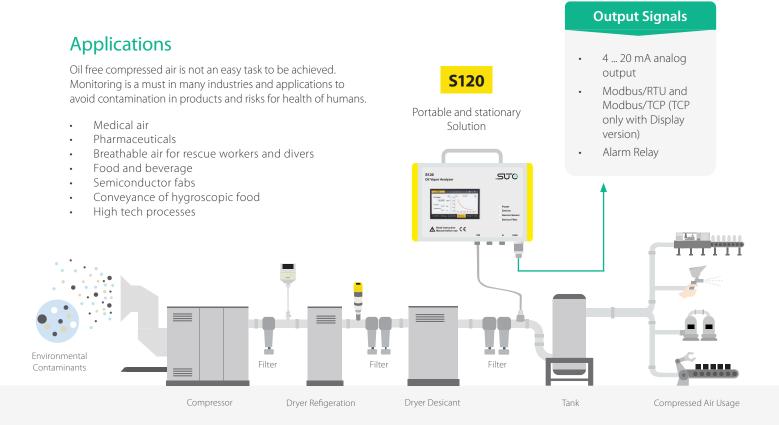
The S120 is designed to offer users an efficient way of measuring residual oil contents in a compressed air system.

The integrated automatic calibration compensates temperature and humidity drifts in the supplied air, resulting in most accurate, reliable and long term stable measurement results.

The simple plug & play installation, as well as its outstanding performance, makes the S120 the ideal choice when oil vapor needs to be measured and monitored.

#### Optional Integrated Dew Point Sensor

To ensure compressed air quality and purity, dew point measurement is an essential key parameter. Therefore, we offer an optional integrated Dew Point Sensor, -100 ... +20 °C Td, to measure both parameters in one compact device with an excellent price performance ratio.



### Technical Data

Measurement	
Oil Vapor	
Measuring range	0.001 5.000 mg/m³ (Based on 1000 hPa(a), 20 °C, 0% relative humidity)
Accuracy	5% of reading $\pm$ 0.003 mg/m $^3$
Resolution	0.001 mg/m³
Selectable units	mg/m³ / ppm
Sensor principle	Photo ionization detector
Pressure	
Measuring range	0 16 bar(g)
Accuracy	0.5 % FS
Resolution	0.01 bar(g) / 0.001 MPa / 0.1 psi
Selectable units	bar(g) (default), MPa and psi (on request)
Sensor principle	Piezzo resistive pressure sensor
Dew Point (optional	I)
Measuring range	-100 +20 °C Td
Accuracy	±1 °C Td (0 20 °C Td)
	±2 °C Td (-70 0 °C Td)
	±3 °C Td (-10060 °C Td)
Resolution	0.1 °C Td
Selectable units	°C Td / °F Td
Sensor principle	QCM + Polymer
Temperature	
Measuring range	0 50 °C
Accuracy	0.5 °C
Resolution	0.1 °C
Selectable units	°C / °F
Sensor principle	NTC

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Outputs / Interface	
Analogue output	4 20 mA, isolated
Alarm output	Relay, NO, 40 VDC,0.2A
Digital interface	Modbus/RTU (RS485)
	Modbus/TCP (Ethernet) & USB (only available for display version)
Display (optional)	5" color touch screen with a data logger of 100 million measurement values
Supply	
Power supply	24 VDC + 5 % 10 W

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

General Data	
Measuring medium	Compressed air, N <sub>2</sub> , CO <sub>2</sub> (for other gases please contact us)
Sample flow rate	< 2 l/min, measuring gas is released to ambient
Sample rate	1/sec
Gas / Operating temperature	-20 +50 °C
Transport temperature	-30 +70 °C
Operating pressure	3 15 bar(g)
	0.5 2 bar(g) (optional)
	0.60 1.07 bar(a) (ambient version only)
Gas humidity	< 40 % rel. humidity, no condensation
Gas connection	6 mm quick connect
UV lamp lifetime	6,000 working hours or 1 year, whichever comes first
Electrical connection	M12, USB, RJ45
Settings	Various sensor settings can be performed through SUTO display units or through the related service software
Housing material	PC, Al alloy
Protection class	IP65
Dimensions	271 x 231 x 91 mm
Weight	2.4 kg
Approval	CE



S120 Oil Vapor Monitor

#### **S120 Oil Vapor Monitor**

Order No.	Description
S604 1201	S120, Oil Vapor Monitor, 0.001 5.000 mg/m³, 4 20 mA output, RS-485, alarm output, supply 24 VDC, incl. power supply
S604 1202	S120-P, Portable Oil Vapor Monitor, 0.001 5.000 mg/m³, 4 20 mA output, RS-485, alarm output, connectable to S551, transport case, incl. power supply
S604 1203	S120, Oil Vapor Monitor, 5" touch screen, 0.001 5.000 mg/m³, 4 20 mA output, RS-485, alarm output, supply 24 VDC, incl. power supply
P604 1205	S120-P, Portable Oil Vapor Monitor, 5" touch screen, 0.001 5.000 mg/m³, 4 20 mA output, RS-485, alarm output, 24 VDC supply, incl. transport case, power supply
P604 1215	S120-Ambient Portable Oil Vapor Monitor for ambient air, 5" touch screen with data logger, 0.001 5.000 mg/m³, 4 20 mA, RS-485 (Modbus RTU), Ethernet (Modbus TCP), alarm output, integrated pump, supply voltage 24V DC, incl. power supply and transport case.
A1250	Option: Integrated dew point sensor, -100 +20 °C Td (only for S604 1203 and P604 1205)
A554 1203	Oil vapor zero filter, 1.5 MPa max, with quick connectors at both ends
A554 1207	Replacement kit for zero filter oil vapor analyzer
A554 0120	Option,Transport case S120/130
R200 0120	S120 General service and re-calibration (for all models without Dew Point Sensor option A1250):  - General inspection of the unit  - Replacement of tubes and fittings  - Cleaning of lamp and sensor  - Assembly and test of unit  - Calibration of oil sensor  - Calibration Certificate
R200 0121	S120 General service and re-calibration with dew point sensor option (for S604 1203 and P604 1205 with Dew Point Sensor Option A1250):  - General inspection of the unit  - Replacement of tubes and fittings  - Cleaning of lamp and sensor  - Assembly and test of unit  - Calibration of oil sensor  - Calibration Certificate