

S120 **Oil Vapor Analyzer**



Intelligent sensor system —

helps you to identify impurities



Features









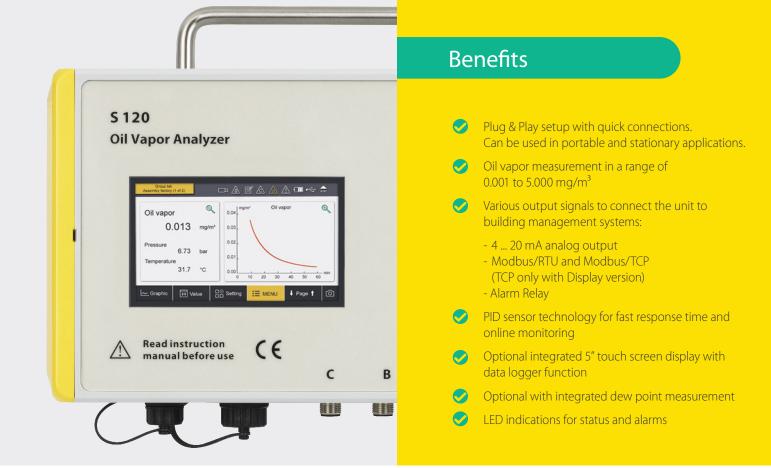




тоисн

SCREEN

For easy operation



The S120 oil vapor sensor monitors the oil content of compressed air and gases permanently or for spot checks when used as portable unit in conjunction with S551. For best accuracy and long term stability, the S120 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 S120 the ideal choice when oil vapor content needs to be measured and monitored.

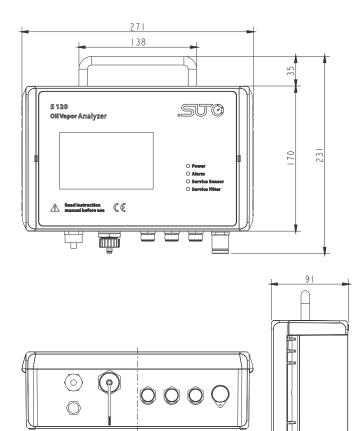


LEDs indicate if pre-set alarms are reached, or if filters and sensors need to be serviced. The service indications start blinking 4 weeks before expiring and turn on permanently when a service is immediately required.

Applications

- Medical air
- Pharmaceuticals
- · Breathable air for rescue workers and divers
- Food and beverage
- Semiconductor fabs
- Conveyance of hygroscopic food
- High tech processes

Dimensions



ŴΠ



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/m ³
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))
Measuring range	-100 +20 °C Td
Accuracy	±1 °C Td (0 20 °C Td)
	±2 °C Td (-60 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

General Data

Measuring medium	Compressed air, N2, CO2 (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-C, 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
EMC	According to IEC 61326-1

Signal / Interface & Supply

Outputs / Interface	
Analogue output	4 20 mA, isolated
Alarm output	Relay, NO, 60 VDC, 1 A
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

Please use the following table to assist in placing your order with our sales staff.

S120 Oil Vapor Analyzer		
Order No.	Description	
S604 1201	S120, oil vapor sensor, 0.001 5.000 mg/m³, 4 20 mA output, RS-485, Alarm output, supply 24 VDC, incl. power supply	
S604 1202	S120-P, oil vapor sensor, 0.001 5.000 mg/m ³ , 4 20 mA output, RS-485, Alarm output, connectable to S551, transport case, incl. power supply	
S604 1203	S120, oil vapor sensor, 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, oil vapor sensor, 5" touch screen, 0.001 5.000 mg/m³, 4 20 mA output, RS-485, alarm, 24 VDC supply, incl. transport case, power supply	
P604 1215	S120-Ambient Portable Oil Vapor Analyzer for ambient air, 5" touch screen with data logger, 0.001 5.000 mg/m ³ , 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 sensor	
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 of dew point sensor Calibration of dew point sensor 	

- Calibration Certificate



www.taiwah.com.tw

台北 TEL: (02) 2592 - 5119 台中 TEL: (04) 2707 - 2269 Fax: (02) 2592- 3577 Fax: (04) 2707-1799 info@taiwah.com.tw 台南 TEL: (06) 243 - 2338 Fax: (06) 243 - 2339