QUALITY AND PURITY OF COMPRESSED AIR

S 130 LASER PARTICLE COUNTER

S 130 is a new generation laser particle counter optimized for applications in compressed air or compressed gases. With quality in mind and with the knowledge of customers needs this instrument is designed for continuous operation 24 hours, 7 days a week. Depending on the selected model there is sensitivity available from 0.1 µm up to 5.0 µm. S 130 can fulfill the requirements stipulated in the compressed air standard ISO 8573-4. The measurement values represent the particle counts per ft^3, l or m^3 or alternatively in $\mu g/m^3$. Settings can be done through the integrated display, an external SUTO display or through the service software.

Features

- Easy connection to compressed air through 6 mm quick-connector
- Can be used as portable as well as stationary instrument
- Particle sizes from 0.1 - 5.0 µm (depending on model)
- Optional display
- Measures according to ISO 8573-4
- Output signals:
  - RS-485, Modbus/RTU
  - SDI (SUTO internal signal)
  - Relay switch (NO)
- Connectable to SUTO displays and data loggers as well as third parties displays and control units
- Integrated 5" touch screen and data logger (option)

Compressed Air Applications

- Medical air
- Pharmaceuticals
- Breathable air
- Marine air
- Food and beverage
- Medical engineering
- High speed trains
- Semiconductor fabs
- Conveyance of hygroscopic food
- High tech processes
- Electronics industry

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S 130 LASER PARTICLE COUNTER

QUALITY AND PURITY OF COMPRESSED AIR

Technical data S 130

Measuring medium	Compressed air and gases free of corrosive, aggressive, caustic and flammable constituents
Models: S 130-A	2 channels: 0.3 - 0.5 µm, >0.5 µm
S 130-B	4 channels: 0.2 - 0.3 µm, 0.3 - 0.5 µm, 0.5 - 1.0 µm, >1.0 µm
S 130-C	4 channels: 0.5 - 1.0 µm, 1.0 - 3.0 µm, 3.0 - 5.0 µm, >5.0 µm
S 130-D	2 channels: 0.5 - 5.0 µm, >5.0 µm
S 130-E	4 channels: 0.3 - 0.5 µm, 0.5 - 1.0 µm, 1.0 - 5.0 µm, >5.0 µm
S 131	4 channels: 0.1 - 0.5 µm, 0.5 - 1.0 µm, 1.0 - 5.0 µm, >5.0 µm
Counting efficiency	50% (per JIS)
System pressure	0.3 ... 0.8 MPa
Flow rate	S 130: 2.83 l/min S 131: 28.3 l/min
Sampling rate	One sample per minute
Calibration	NIST traceable
Measuring unit	Particle counts per ft^3, l or m^3 , selectable Concentration in $\mu g/m^3$
Gas connection	6 mm quick connect
Electrical connection	M12 connector
Gas temperature	0 °C ... +40 °C (at inlet)

Ambient conditions	10 °C ... +40 °C
Transport temperature	-30 °C ... +70 °C
Output signal	RS-485, Modbus/RTU SDI (internal SUTO signal) 4 ... 20 mA Alarm relay: NO, 32 VDC / 500 mA
Power supply	24 VDC, 5 W
Application	Downstream of filters 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 the related service software
Weight	1900 g
Display & data logger	5" touch screen, 100 million values (option)

Order No.	Counter	Display	Description
S604 1300			S 130 particle counter base unit
A1360	A		S 130-A, particle counter, 0.3 - 0.5 m, >0.5 µm, 2.83 l/min, RS-485, 24 VDC/5W
A1361	B		S 130-B, particle counter, 0.2 - 0.3 m, 0.3 - 0.5 m, 0.5 - 1.0 m, >1.0 µm, 2.83 l/min, RS-485, 24 VDC/5W
A1362	C		S 130-C, particle counter, 0.5 - 1.0 m, 1.0 - 3.0 m, 3.0 - 5.0 m, >5.0 µm, 2.83 l/min, RS-485, 24 VDC/5W
A1363	D		S 130-D, particle counter, 0.5 - 5.0 m, >5.0 µm, 2.83 l/min, RS-485, 24 VDC/5W
A1364	E		S 130-E, particle counter, 0.3 - 0.5 m, 0.5 - 1.0 m, 1.0 - 5.0 m, >5.0 m, 2.83 l/min, RS-485, 24 VDC/5W
		A	None
A1368		B	Integrated display and data logger 5", touch screen, with USB cable and S4M-S software
S604 1304			S 131, particle counter, 0.1, 0.5, 1.0, 5.0 µm, 28.3 l/min, RS-485, 24 VDC/5W
A554 0105			Transport case S 120/130, L400 x W300 x H180
A554 0312			Zero count filter for counter checking
R200 0130-A			Calibration particle counter S 130-A
R200 0130-B			Calibration particle counter S 130-B
R200 0130-C			Calibration particle counter S 130-C
R200 0130-D			Calibration particle counter S 130-D
R200 0131-E			Calibration particle counter S 130-E
R200 0131			Calibration particle counter S 131