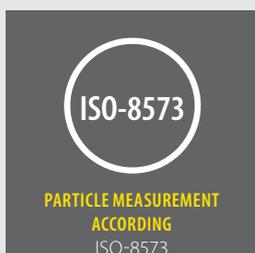
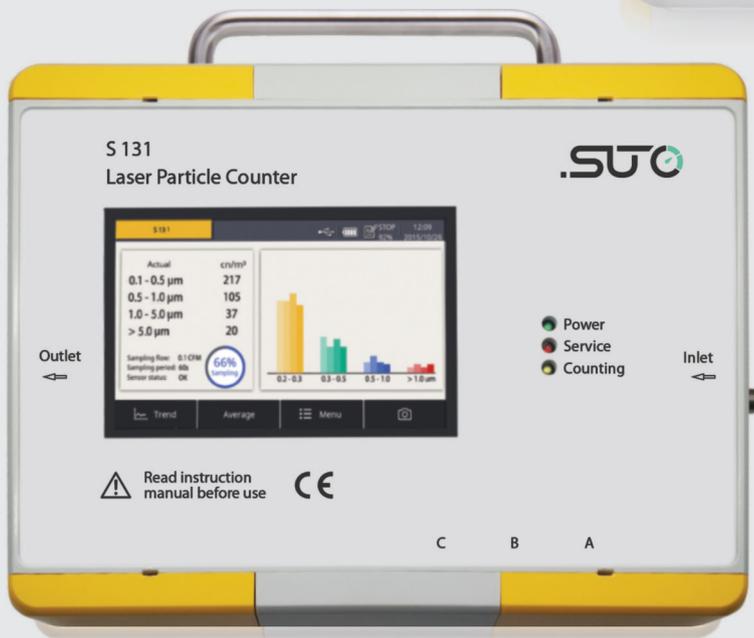


# LASER PARTICLE COUNTER

## S 130 / S 131



# Measures particle counts in compressed air and in ambient — meets the requirements in ISO 8573-4



## S 130 / S 131 FEATURES



**PARTICLE MEASUREMENT**  
According to ISO-8573



**ECO VERSION**  
**S 130**  
Starting at 0.3 µm



**VERSION WITH INTERNAL PUMP**  
For ambient measurements



**PRO VERSION**  
**S 131**  
Starting at 0.1 µm

## S 130 / S 131 APPLICATION

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

In an alternative version all models are also available for measurements under ambient conditions by means of an internal vacuum pump.

## S 130 / S 131 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 integrated 5" touch screen with data logger
- Measures according to ISO 8573-4
- Output signals:
  - RS-485, Modbus/RTU
  - Relay switch (NO)
- Connectable to SUTO displays and data loggers as well as third parties displays and control units

## S 130 / S 131 OPERATION PRINCIPLE

The S 130 / S 131 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 customer 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. These instruments can fulfill the requirements stipulated in the compressed air standard ISO 8573-4. Measurement values represent the particle counts per ft<sup>3</sup>, l or m<sup>3</sup> or alternatively in µg/m<sup>3</sup>. Settings can be done through the integrated display, an external SUTO display or through the service software.

## S 130 / S 131 TECHNICAL DATA

General Specifications	
Measuring medium	Compressed air and gases free of corrosive, aggressive, caustic and flammable constituents
Models: S 130 S 131	4 channels: 0.3 - 0.5 µm, 0.5 - 1.0 µm, 1.0 - 5.0 µm, >5.0 µm 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 (for compressed air version)
Flow rate	2.83 l/min
Sampling rate	One sample per minute
Measuring unit	Particle counts per ft <sup>3</sup> , l or m <sup>3</sup> , selectable Concentration in µg/m <sup>3</sup>
Gas connection	6 mm quick connect
Electrical connection	M12 connector
Medium	Compressed air / ambient air, 0°C... +40°C, < 40% relative Humidity, no condensation
Ambient conditions	10°C ... +40°C
Transport temperature	-30°C ... +70°C
Output signal	RS-485, Modbus/RTU Alarm relay: NO, 32 VDC / 500 mA
Power supply	24 VDC, 10 W
Application	Downstream of filters wherever upstream drying and filtration is applied
Casing / dimensions	PC, Al alloy S 130 271 X 205 X 91 mm S 131 300 X 240 X 120 mm
Classification	IP65
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)

## S 130 / S 131 ORDERING

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



Visit our website or e-mail us:  
[www.suto-itec.com](http://www.suto-itec.com)  
[sales@suto-itec.com](mailto:sales@suto-itec.com)

Particle Counter for Compressed Air: P = 0.3 ... 0.8 Mpa	
Order No.	Description
<b>S604 1303</b>	S 130 particle counter, 0.3 - 0.5 µm, 0.5 - 1.0 µm, 1.0 - 5.0 µm, >5.0 µm
<b>S604 1305</b>	S 130 particle counter, 0.3 - 0.5 µm, 0.5 - 1.0 µm, 1.0 - 5.0 µm, >5.0 µm, display, data logger and software S4A
<b>S604 1308</b>	S 131, particle counter, 0.1 - 0.5 µm, 0.5 - 1.0 µm, 1.0 - 5.0 µm, >5.0 µm
<b>S604 1309</b>	S 131, particle counter, 0.1 - 0.5 µm, 0.5 - 1.0 µm, 1.0 - 5.0 µm, >5.0 µm, display, data logger and software S4A
Accessories	
<b>A554 0120</b>	Transport case S 120/130
<b>A554 0116</b>	Transport case S 131
<b>A554 1204</b>	Zero count filter
<b>R200 0130</b>	Calibration particle counter S 130
<b>R200 0131</b>	Calibration particle counter S 131

Particle Counter for Ambient condition with integrated pump	
Order No.	Description
<b>S604 1313</b>	S 130 particle counter, 0.3 - 0.5 µm, 0.5 - 1.0 µm, 1.0 - 5.0 µm, >5.0 µm
<b>S604 1315</b>	S 130 particle counter, 0.3 - 0.5 µm, 0.5 - 1.0 µm, 1.0 - 5.0 µm, >5.0 µm, display, data logger and software S4A
<b>S604 1318</b>	S 131, particle counter, 0.1 - 0.5 µm, 0.5 - 1.0 µm, 1.0 - 5.0 µm, >5.0 µm
<b>S604 1319</b>	S 131, particle counter, 0.1 - 0.5 µm, 0.5 - 1.0 µm, 1.0 - 5.0 µm, >5.0 µm, display, data logger and software S4A
Accessories	
<b>A554 0115</b>	Isokinetic sampler with stand and hose for ambient conditions
<b>A554 0120</b>	Transport case S 120/130
<b>A554 0116</b>	Transport case S 131
<b>A554 1204</b>	Zero count filter
<b>R200 0130</b>	Calibration particle counter S 130
<b>R200 0131</b>	Calibration particle counter S 131

EUROPEAN OFFICE	CHINA OFFICE	ASIA / PACIFIC OFFICE
<p>SUTO iTEC GmbH</p> <p>Werkstr. 2 79426 Buggingen Germany Fon: +49(0) 7631 936 889 0 Fax: +49 (0) 7631 936 889 19 Mail: sales@suto-itec.com</p>	<p>SUTO iTEC (China) Co. Ltd</p> <p>D3 Building, Unit A, 11/F, TCL International E City 1001 Zhongshanyuan Road, Nanshan Shenzhen, China Tel: +86 (0) 755 8619 3164 Fax: +86 (0) 755 8619 3165 Email: sales@suto-itec.cn</p>	<p>SUTO iTEC (ASIA) Co. Limited</p> <p>Room 10, 6/F, Block B, Cambridge Plaza 188 San Wan Road, Sheung Shui, N.T. Hong Kong Tel: +852 2328 9782 Fax: +852 2671 3863 Email: sales@suto-itec.asia</p>