

# LASER PARTICLE COUNTER

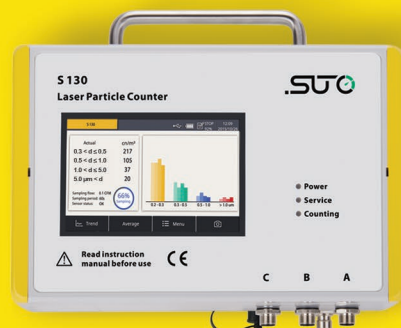
## S130 / S132



PARTICLE MEASUREMENT  
ACCORDING  
ISO-8573



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



## S130 / S132 FEATURES



**PARTICLE MEASUREMENT**  
According  
ISO-8573



**ECO VERSION  
S130**  
Smallest channel  
 $0.3 < d \leq 0.5 \mu\text{m}$



**VERSION WITH  
INTERNAL PUMP**  
For ambient  
measurements



**PRO VERSION  
S132**  
Smallest channel  
 $0.1 < D \leq 0.5 \mu\text{m}$

## S130 / S132 APPLICATION

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

## S130 / S132 BENEFITS

- Easy connection to compressed air through 6 mm quick-connector
- Can be used as portable as well as stationary instrument
- Particle sizes range  $d: 0.1 < d \leq 5.0 \mu\text{m}$
- 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

## S130 / S132 OPERATION PRINCIPLE

The S130 / S132 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.

In an alternative version all models are also available for measurements under ambient conditions by means of an internal vacuum pump. These instruments can fulfill the requirements stipulated in the compressed air standard ISO 8573-4. Measurement values represent the particle counts per  $\text{ft}^3$ ,  $\text{l}$  or  $\text{m}^3$  or alternatively in  $\mu\text{g}/\text{m}^3$ . Settings can be done through the integrated display, an external SUTO display or through the service software.

## S130 / S132 TECHNICAL DATA

General Specifications			
Measuring medium	Compressed air and gases free of corrosive, aggressive, caustic and flammable constituents		
Models: S130 S132	S130 particle counter, 3 channels, size range d: $0.3 < d \leq 5.0 \mu\text{m}$ , 2.83 l/min S132 particle counter, 3 channels, size range d: $0.1 < d \leq 5.0 \mu\text{m}$ , 2.83 l/min		
Channel sizing d: S130: S132:	Channel 1 $0.3 < d \leq 0.5$ $0.1 < d \leq 0.5$	Channel 2 $0.5 < d \leq 1.0$ $0.5 < d \leq 1.0$	Channel 3 $1.0 < d \leq 5.0$ $1.0 < d \leq 5.0$
Counting efficiency	50% for smallest size and 100% for particles 1.5 times bigger (per JIS)		
System pressure	0.3 ... 0.8 MPa (for compressed air version)		
Flow rate	2.83 l/min, internal flow control		
Sampling rate	One sample per minute		
Measuring unit	Particle counts per ft <sup>3</sup> , l or m <sup>3</sup> , selectable Concentration in $\mu\text{g}/\text{m}^3$		
Gas connection	6 mm quick connect (pressurized version), barb connection (ambient version)		
Electrical connection	M12 connector		
Medium	Compressed air / ambient air, 0 ... +40°C, < 40% relative Humidity, no condensation		
Ambient conditions	10 ... +40°C		
Transport temperature	-30 ... +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 S130 271 X 205 X 91 mm S132 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)		



Isokinetic sampler with stand and hose

## S130 / S132 ORDERING

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

Particle Counter for Compressed Air: P = 0.3 ... 0.8 Mpa	
Order No.	Description
<b>S604 1303</b>	S130, particle counter for compressed air, size range d: $0.3 < d \leq 5.0 \mu\text{m}$ , 2.83 l/min
<b>S604 1305</b>	S130, particle counter for compressed air, size range d: $0.3 < d \leq 5.0 \mu\text{m}$ , 2.83 l/min, display, logger
<b>S604 1308</b>	S132, particle counter for compressed air, size range d: $0.1 < d \leq 5.0 \mu\text{m}$ , 2.83 l/min
<b>S604 1309</b>	S132, particle counter for compressed air, size range d: $0.1 < d \leq 5.0 \mu\text{m}$ , 2.83 l/min, display, logger
Accessories	
<b>A554 0120</b>	Transport case S120 / S130
<b>A554 0116</b>	Transport case S132
<b>A554 1204</b>	Zero count filter
<b>R200 0130</b>	Calibration particle counter S130
<b>R200 0131</b>	Calibration particle counter S132

Particle Counter for Ambient condition with integrated pump	
Order No.	Description
<b>S604 1313</b>	S130-A particle counter for ambient air, channels 0.3, 0.5, 1.0, 5.0 $\mu\text{m}$ , 2.83 l/min
<b>S604 1315</b>	S130-A particle counter for ambient air, channels 0.3, 0.5, 1.0, 5.0 $\mu\text{m}$ , 2.83 l/min, display, logger
Accessories	
<b>A554 0115</b>	Isokinetic sampler with stand and hose for ambient conditions
<b>A554 0120</b>	Transport case S120 / S130
<b>A554 1204</b>	Zero count filter
<b>R200 0130</b>	Calibration particle counter S130

