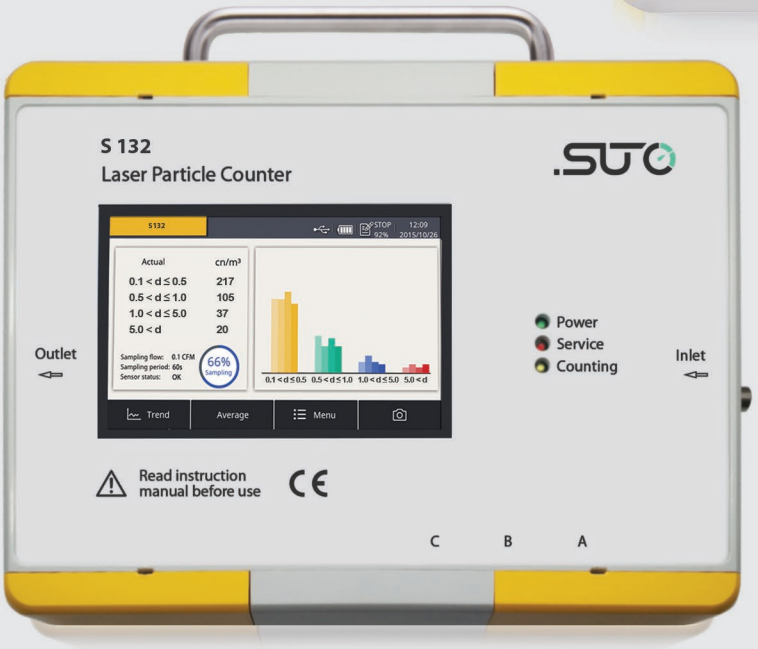
LASER PARTICLE COUNTER
S130 / S132



ISO-8573

PARTICLE MEASUREMENT ACCORDING ISO-8573

ECO

PRO

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 ≤ 0.5 µm

VERSION WITH INTERNAL PUMP
For ambient measurements

PRO VERSION S132
Smallest channel 0.1 < D ≤ 0.5 µm

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 ≤ 5.0 µm
- 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 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.

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 ≤ 5.0 µm, 2.83 l/min S132 particle counter, 3 channels, size range d: 0.1 < d ≤ 5.0 µm, 2.83 l/min		
Channel sizing d: S130: S132:	Channel 1 0.3 < d ≤ 0.5 0.1 < d ≤ 0.5	Channel 2 0.5 < d ≤ 1.0 0.5 < d ≤ 1.0	Channel 3 1.0 < d ≤ 5.0 1.0 < d ≤ 5.0
Counting efficiency	50% for smallest size and 100% for particles 1.5 times bigger (per JIS)		
System pressure	0.3 ... 1.5 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^3 or 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

Visit our website or e-mail us:
www.suto-itec.com
sales@suto-itec.com

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

Particle Counter for Compressed Air: P = 0.3 … 1.5 Mpa	
Order No.	**Description**
S604 1303	S130, particle counter for compressed air, size range d: 0.3 < d ≤ 5.0 µm, 2.83 l/min
S604 1305	S130, particle counter for compressed air, size range d: 0.3 < d ≤ 5.0 µm, 2.83 l/min, display, logger
S604 1308	S132, particle counter for compressed air, size range d: 0.1 < d ≤ 5.0 µm, 2.83 l/min
S604 1309	S132, particle counter for compressed air, size range d: 0.1 < d ≤ 5.0 µm, 2.83 l/min, display, logger
Accessories	
A554 0120	Transport case S120 / S130
A554 0116	Transport case S132
A554 1204	Zero count filter
R200 0130	Calibration particle counter S130
R200 0131	Calibration particle counter S132

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

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