

# HTK 1130 Laser Particle Counter



Measures particle counts in compressed air and in ambient

Meets the requirements in ISO 8573-4

The HTK 1130 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.

## Mode of operation

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 display or through the HTK Service.

## 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  
- Relais (NO)
- Connectable to our displays and data loggers as well as third parties displays and control units

## Application Areas

- 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.

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We control GASES - since 1978



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## Analysers from HTK

### We are your partner for tailor-made gas analysis technology

The use of fixed and mobile gas analysers is widespread in many industries, and the demand continues to grow.

HTK Hamburg develops and builds equipment to provide effective solutions, from the small manual analyser up to the complex analysis unit in the food sector, welding & cutting and in many other industries.

Planning, manufacturing, service and calibrating analysers for the measuring gases such as O<sub>2</sub>, CO<sub>2</sub>, H<sub>2</sub>, SF<sub>6</sub> - and many more - isn't a challenge for us; it's our mission each and every day.

Our aim is to ensure safe, consistent and accurate analysis in your process - thus maintaining quality.



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Technical Data			
Measuring medium	Compressed air and gases free of corrosive, aggressive, caustic and flammable constituents		
Models	Variant 1: 3 channels, size range d: $0.3 < d \leq 5.0 \mu\text{m}$ , 2.83 l/min Variant 2: 3 channels, size range d: $0.1 < d \leq 5.0 \mu\text{m}$ , 2.83 l/min		
Channel sizing d:	Channel 1:	Channel 2:	Channel 3:
Variant 1:	$0.3 < d \leq 0.5 \mu\text{m}$	$0.5 < d \leq 1.0 \mu\text{m}$	$1.0 < d \leq 5.0 \mu\text{m}$
Variant 2:	$0.1 < d \leq 0.5 \mu\text{m}$	$0.5 < d \leq 1.0 \mu\text{m}$	$1.0 < d \leq 5.0 \mu\text{m}$
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 <sup>3</sup> or m <sup>3</sup>		
Gas connection	6 mm quick connect (pressurized version), barb connection (ambient version)		
Electrical connection	M12 connector		
Medium Temperature	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 Variant 1: 271 x 205 x 91 mm Variant 2: 300 x 240 x 120 mm		
Classification	IP65		
Settings	Various sensor settings can be performed through the display		
Weight	1900 g		
Display & data logger	5" touch screen, 100 million values (Option)		

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