

SPECIFICATIONS

Facility Monitoring Particle Counter

KR-02B



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Outline

This unit is a facility monitoring particle counter designed for remote monitoring in environments where air purity is highly critical. It is suitable for use in clean rooms and for managing clean room manufacturing facilities.

The unit detects particles in two channels, with channel 1 being for particles of sizes $\geq 0.3 \mu\text{m}$ and channel 2 for particles of sizes $\geq 0.5 \mu\text{m}$.

Pulse signal is output when a particle of the respective sizes or larger is detected.

Because this unit does not include a power supply, pump, and display, these functions must be provided through connection to external equipment.

Specifications

Optical system	90° sideway light-scattering method
Light source	Laser diode: wave length 790 nm, maximum output 50 mW
Laser product classification	Class 1, IEC 60825-1 (2001)
Light detector	Photodiode
Minimum particle size	0.3 μm (for particles with refractive index 1.6)
Measurement size ranges	Channel 1: 0.3 μm and above Channel 2: 0.5 μm and above
Flow rate	2.83 L/minute
Maximum particle number concentration	70,000 particles/L (coincidence loss within 5%)
Sample flow control	Via critical orifice of connected vacuum source with max. -60 kPa (gauge pressure)
Indicators	POWER, CALIBRATION LEDs
Output	Balanced pulse signal
Connector	RJ-45
Tube connectors	
Inlet	Outer diameter 1/8 inch (approx. 3.18 mm)
Outlet	Outer diameter 1/4 inch (approx. 6.35 mm)
Power requirements	9 to 28 V DC (max. 100 mA at 24 V)

Ambient conditions for operation

+10 to +40°C, 20 to 95% RH (no condensation)

Ambient conditions for storage

-10 to +50°C, max. 98% RH (no condensation)

Dimensions

105 (H) × 107 (W) × 44 (D) mm (maximum)

54 (H) × 107 (W) × 44 (D) mm (excluding protruding parts)

Weight

Approx. 350 g

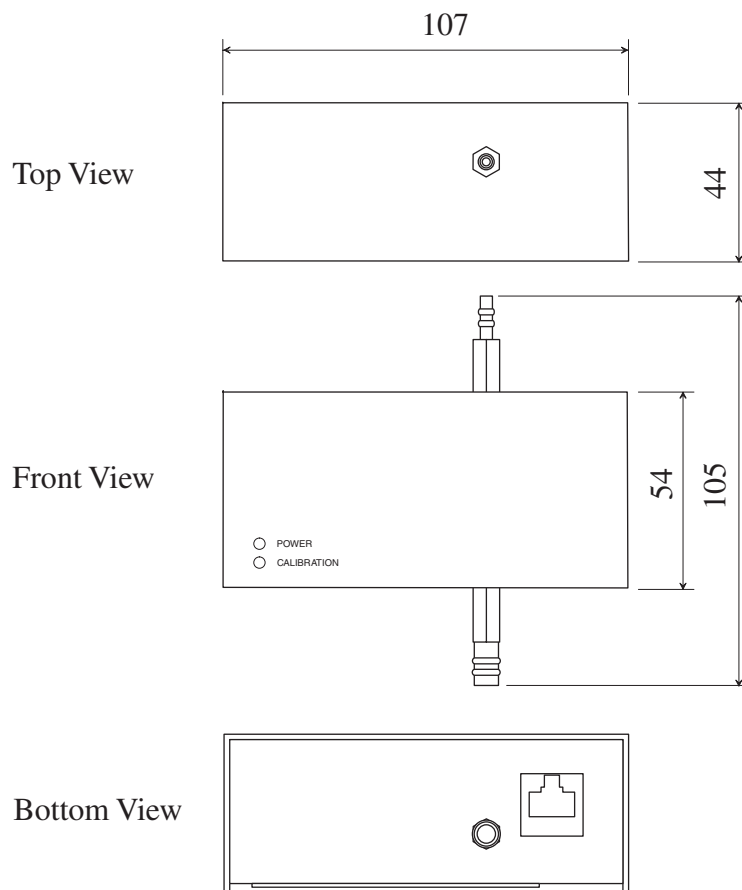
Supplied accessories

Instruction manual

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Inspection certificate

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Unit: mm

Dimensional Drawings

Specifications subject to change without notice