Compact and Integrated Use for Facility Monitoring System

- Two-channel measurement: $\geq 0.2$ and $\geq 0.5 \, \mu m$ for KL-28B, KL-28BF
- HF is usable as sample with KL-28BF
- Versatile array of interface: RS-232C, RS-485, 4-20 mA, 1-5 V
- Multi-point monitoring is possible with optional software such as RP-monitor
Specifications

KS-28B / 28BF

- Product name: Light scattering liquid-borne particle detector, Light scattering liquid-borne particle detector
- Model: KS-28B / 28BF
- Optical system: Lateral light scattering system
- Light source: Laser diode; frequency 780 nm, rated output 40 mW
- Laser product classification: Class 1, compliant with IEC 60825-1 (2001)
- Light-sensitive element: Photocell
- Liquid contact unit: PTFE, PFA, synthetic quartz (PTFE, PFA, sapphire)
- Particle diameter classification: 0.2 μm, 0.5 μm, 2 stages for each particle diameter or more
- Rated flow: 10 ml / min
- Maximum rated particle density: 1,000/ml (with count loss 5 % 0.2 μm particles)
- Sample temperature range: 15 °C to 35 °C (moisture is not to form in cell unit)
- Sample pressure range: 300 kPa or less (gage pressure)
- Liquid connection: Sample intake/discharge 2 mm x 4 mm flared tube joint
- Purge opening: Internal diameter 4 mm tube connection
- Input/output terminal: Control terminal Connected to liquid-borne particle counter KE-28B
- Power supply: Supplied by liquid-borne particle counter KS-28B
- Size & weight: 105 x 80 x 118 mm (3) (excluding units and data transmitting parts), approx. 800 g
- Accessories: Tube A vacuum D1 x 1, sensor cable D1, hexagonal bar wrench (access flat 2) x 1

KE-28B

- Product name: Liquid-borne particle counter
- Model: KE-28B
- Particle diameter classification: 2 stages (CH1, CH2), particle diameter depends on connection to particle detector
- Measured liquid volume: 10 ml, 100 ml, random volume (MAN)
- Automatic measurement: If the measured liquid volume is 10 ml or 100 ml, selection is possible between single-time automatic measurement and repeated automatic measurement
- External terminals: KE-28B / 28BF
- Control: Used for control to particle detector
- SERIAL: Serial interface terminal (RS-232C)
- 12 VDC: DC power supply terminal
- Power supply: 12 VDC (connection to 100 VAC using special AC adapter)
- Power consumption: 100 VAC, 23 VA
- Size & weight: 65 x 85 x 120 mm (3) (excluding projecting parts), approx. 400 g
- Accessories: AC adapter D1 x 1, electrical power cord D1 x 1

Options

- Mass flow controller CVR1/4-FM
  - Liquid: Purified water and chemical solutions
  - Flow: 10 to 31.2 l/min
  - Operating pressure: 0.1 MPa to 0.4 MPa
  - Size & weight: 157.6 x 219.6 x 110 mm (3) (excluding projecting parts), approx. 2.4 kg

- Thermal printer DPU-414 (Sekko Instruments Inc.)
  - Measurement data printouts, also driven by internal battery

- Printing method: Heat sensitive serial dot system
- Imprint size: 40
- Printer: AC adapter or battery
- Interface: RS-232C
- Size & weight: 163.5 x 150 x 36 (3) (excluding projecting parts), approx. 0.7 kg
  - Printer cable CC-61DP (optional)
  - Heat sensitive paper TP-14 (112 mm x 28 m/roll, 6 rolls)
  - Clean paper TP-26 (112 mm x 25 m/roll, 6 rolls)

- Monitoring software RP-Monitor series
  - RP-Monitor K9461
  - Particle counter, sensor automatic measurement, data collection, graph production primarily for one-to-one connection
  - RP-Monitor K9462
  - Small-scale multi-point monitoring system for connection to maximum 20 sensors
  - KE-28B
  - Large-scale multi-point monitoring system for connection to maximum 248 sensors

- Multi-point monitoring system interface KZ-45MG
  - Required when combining KE-28B and sensor multi-point monitoring systems

External dimensions (excluding projecting parts)

Dimensions mm

KS-28B / 28BF

KE-28B

85
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58
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Development not only of single unit but also monitoring systems with 20-point connection using RP monitors (K9462) and 248-point connection (KF-02B)