Ideal for particle management in wet process systems

- Light-weight palm-sized unit delivers high performance
- Can be easily integrated anywhere in a wet line
- Compatible with real-time multi-point monitoring systems (option)
- Supports a wide range of fluids, from pure water to resist and hydrofluoric acid (KS-28BF only)
- Detection efficiency close to 100 %
RP monitor EVO K0505 Ver.3 enables configuration of multi-point monitoring system with up to 20 connection points

Example of inline system configuration (using mass flow controller)

![Diagram of inline system configuration](image)

**Example of cleaning tank inline monitoring**

![Diagram of cleaning tank inline monitoring](image)

**Specifications**

(KL-28B/28BF are composed of display control unit KE-28B and detection unit KS-28B/28BF)

**KS-28B / 28BF**

- **Optical system**: Light scattering method
- **Light source**: Laser diode: frequency 780 nm, rated output 40 mW
- **Laser product class**: Class 1, compliant with IEC 60825-1
- **Light detector**: Photodiode
- **Materials of parts exposed to sample**: KS-28B: PTFE, PFA, synthetic quartz, KS-28BF: PTFE, PFA, sapphire
- **Calibration**: Polystyrene latex (PSL) particles (refractive index 1.6) in pure water
- **Size range**: 0.2 µm, 0.5 µm 2 stages for each particle diameter or more
- **Flow rate**: 10 m/min
- **Counting efficiency**: 70 to 110 %
- **Maximum particle number concentration**: 1 to 200 particles/mL (coincidence loss 5 %)
- **Sample pressure range**: 300 kPa or less (gauge pressure)
- **Sample inlet/outlet**: Sample inlet/admission 2 mm x 4 mm flared tube joint
- **Purge air port**: Internal diameter 4 mm tube connection
- **Environmental conditions for operation**: 15 °C to 35 °C (no condensation)
- **Power**: Supplied by liquid-borne particle counter KE-28B
- **Dimensions and weight**: 65 (H) x 85 (W) x 120 (D) mm (excluding projecting parts), approx. 400 g
- **Accessories**: AC adapter × 1, electrical power cord × 1

**KE-28B**

- **Size range**: 2 channels (CH.1, CH.2), 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
- **CONTROL**: Used for connection to particle detector
- **Signal**: Serial interface terminal (RS-232-C)
- **Power**: 12 V DC (connection to 100 V AC using special AC adapter), Power consumption: 100 V AC, 23 VA
- **Dimensions and weight**: 70 (H) x 110 (W) x 190 (D) mm (excluding projecting parts), approx. 2.4 kg
- **Accessories**: AC adapter × 1, electrical power cord × 1
- **Factory option**: D/A interface KE-25G (4-20 mA output)

**Options**

- **Mass Flow Controller**
  - **CVR-1/4-FM (Viton)**
  - **CVR-1/4-P-FM (Perfluor)**
  - Always single type Pure water, chemical fluids
  - **Flow**: 10 to 31.2 mL/min
  - **Pressure used**: 100 kPa to 400 kPa
  - **Dimensions and weight**: Approx. 125 (H) x 185 (W) x 110 (D) mm, approx. 2.4 kg
  - (This Mass Flow Controller is products of Surpass Industry Co., Ltd.)
- **Thermal printer DPU-414 (Shizuoka Instruments Inc.)**
- Measurement data printouts, also driven by internal battery
  - **Printing method**: Heat sensitive serial dot system
  - **Imprinted digit count**: 40
  - **Power supply**: AC adapter or battery
  - **Interface**: RS-232C
  - **Dimensions and weight**: 65.5 (H) x 160 (W) x 170 (D) mm (excluding projecting parts), approx. 0.7 kg
  - Printer cable CC-61DP (optional)
  - Heat sensitive paper TP-14 (112 mm × 28 m/roll, 6 rolls)
  - Clean paper TP-26 (112 mm × 25 m/roll, 6 rolls)
- **RP monitor EVO K0505 Ver.2/Ver.3**
  - Used for controlling particle counters to regulate the start/end of measurement and turn the light source/built-in pump on and off Measurement time, period, number of measurements, alarm, and conversion settings
  - **Supported OS**: Microsoft Windows XP Professional (32 bit), 7 Professional (32 bit)
- **D/A Interface KZ-25G**
  - Converts measured particle count data into 4-20 mA current output
- **Multi-point monitoring system interface KZ-45MG**
  - Required when combining KE-28B and sensor multi-point monitoring systems

**Distributed by**

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