Easily Configure a Measurement System for Liquid-Borne Particle Counters

High-Precision Sample Flow Control

Syringe Sampler KZ-31W

- Large display allows checking current status at a glance
- Three operation modes: Purge mode, Measurement mode, Combination mode
- Application software allows management of all settings from a computer
Supported models for connection: KE-40B1, KE-40B, KE-40

Suitable syringe sizes:
- 25 mL PP syringe (polypropylene) [supplied]
- 25 mL glass syringe (Pyrex glass) [option]

Fluid-contacting materials: PCTFE, PTFE, PFA, PP

Suitable sample fluids: Fluids which do not cause corrosion of fluid-contacting parts

**Purge mode**

- **Flow rate**
  - Setting range: 5 to 100 mL/min (with liquid-borne particle counter connected)
  - Resolution: 1 mL/min
- **Capacity**
  - Setting range: 0 to 25 mL
  - Resolution: 0.5 mL
- **Repeat count setting range**
  - 1 to 99 times (with liquid-borne particle counter connected)

**Measurement mode**

- **Flow rate**
  - Setting range: 5 to 100 mL/min (with liquid-borne particle counter connected)
  - Resolution: 1 mL/min
- **Capacity**
  - Setting range: 0 to 25 mL
  - Resolution: 0.5 mL
- **Blank volume**
  - Setting range: 0 to 10 mL
  - Resolution: 0.5 mL
- **Repeat count setting range**
  - 1 to 99 times (with liquid-borne particle counter connected)

**Combination mode**

- Number of setting memory addresses:
  - Purge mode, Measurement mode: 50 each (25/50 can only be set from application software)
- Number of step memory addresses: 1 to 10

**External connectors**

- EXT CONTROL (D-sub 9-pin female)

**Display**

- Segment type LCD

**Ambient conditions for operation**

- +5 to +40 ºC, 85 % RH or less (no condensation)
- Sample fluid temperature range: +5 to +40 ºC
- Temperature and humidity range for storage: -10 to +50 ºC, 85 % RH or less (no freezing)

**Power requirements**

- 100 to 240 V AC ±10 % 50/60 Hz (3-pin plug), approx. 50 VA

**Dimensions and weight**

- Approx. 345 (H) x 141 (W) x 215 (D) mm, approx. 5.5 kg

**Supplied accessories**

- PFA tube (with connector) x 2
- 25 mL PP syringe set (polypropylene, for replacement)
- AC power cord

**Options**

- Connection cable C KZ-30S180 (for connection to KE-40B1/KE-40B/KE-40)
- 25 mL syringe set (PP: NW25PP20, Glass: KZ30WS20)
- PFA tube (flared tip, with connector) KZ31S120
- Connection cable for application software KZ31S110

**Additional modification**

- Includes mounting of one-touch joint for 6 mm dia. tube, to supply purge air and prevent inflow of corrosive gases into the enclosure

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**Display screen example (Measurement mode)**

**Controller KE-40B1**

For particle sensor operation control and measurement data display. Allows free setting of particle size groups in up to 10 channels.

**Dimensional Drawing**

(Unit: mm)

- Front view
- Side view

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