



Easily Configure a Measurement System for  
Liquid-Borne Particle Counters

— **High-Precision Sample Flow Control** —

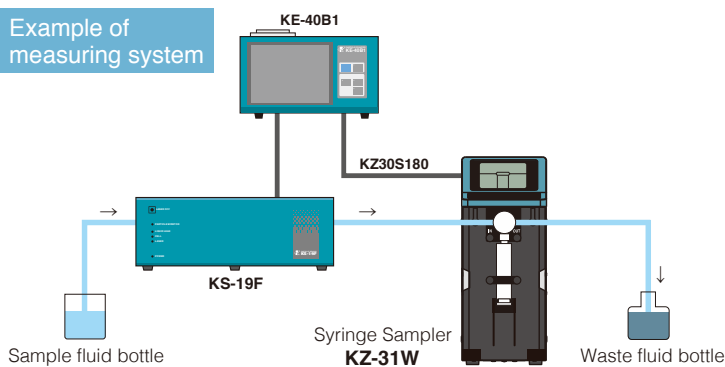
## Syringe Sampler KZ-31W

- 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

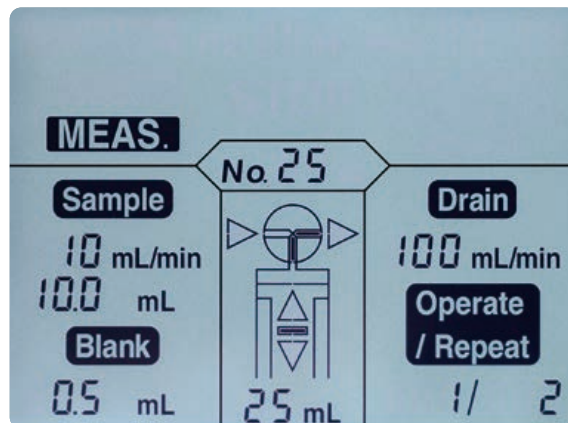
## Specifications

|  |   |  |
|--|---|--|
| Supported models for connection              | KE-40B1, KE-40B, KE-40  |  |
| Suitable syringe sizes                       | 25 mL PP syringe (polypropylene) [supplied]<br>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   |  |
| <b>Purge mode</b>                            |   |  |
| 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)  |  |
| <b>Measurement mode</b>                      |   |  |
| 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 steps   | 2 to 10  |
| Number of setting memory addresses           |   |  |
| Purge mode, Measurement mode                 | 50 each (25/50 can only be set from application software)   |  |
| Combination mode                             | 20 (10/20 can only be set from application software)  |  |
| External connectors                          | EXT CONTROL (D-sub 9-pin female)  |  |
| Display                                      | Segment type LCD  |  |
| Ambient conditions for operation             | +5 to +40 °C, 85 % RH or less (no condensation)   |  |
| Sample fluid temperature range               | +5 to +40 °C  |  |
| Temperature and humidity range for storage   | -10 to +50 °C, 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<br>25 mL PP syringe set (polypropylene, for replacement)<br>AC power cord   |  |
| <b>Options</b>                               |   |  |
|  | Connection cable C KZ-30S180 (for connection to KE-40B1/KE-40B/KE-40)<br>25 mL syringe set (PP: NW25PP20, Glass: KZ30WS20)<br>PFA tube (flared tip, with connector) KZ31S120<br>Connection cable for application software* KZ31S110<br>*Software can be downloaded from the Rion web site |  |
| Additional modification for purge air supply | Includes mounting of one-touch joint for 6 mm dia. tube, to supply purge air and prevent inflow of corrosive gases into the enclosure   |  |

## Example of measuring system



## Display screen example (Measurement mode)



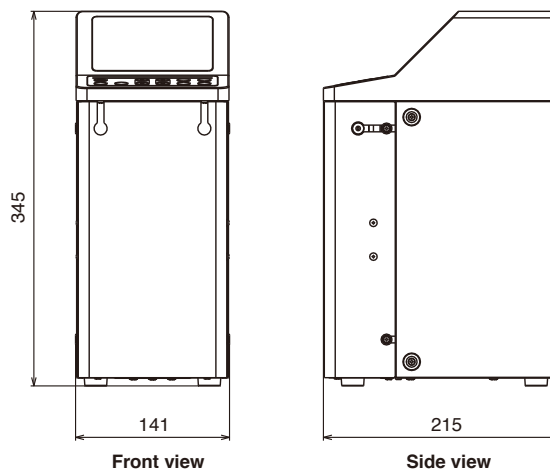
## Controller KE-40B1



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)



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**RION CO., LTD.**  
<http://www.rion.co.jp/english/>

3-20-41, Higashimotomachi, Kokubunji,  
Tokyo 185-8533, Japan  
Tel: +81-42-359-7878, Fax: +81-42-359-7458