

Automatic Monitoring by Sensor and Data Logger Unit for Precipitation Measurement

S&DL Rain Gauge



<Abstract>

This precipitation gauge integrates data logger which can automatically measures rain fall in a day or in arbitrary time by connecting S&DL Precipitation Gauge data logger to a tipping bucket (0.5mm or 1mm type) that is adapted in many sites.

Operations can simply be done by PC or dedicated handy terminal to input to this data logger by; selecting a type of tipping bucket (0.5mm or 1mm type) and measurement interval (time) from PC or dedicated handy terminal.

<Features>

- Simple operations
- Bothersome data conversion is not required since the precipitation data is acquired in the unit of "mm" according to measurement interval.
- Measurement can be done continuously for 3 months before its batteries need to be replaced.
- It equips arrester and varistor to protect them from lightning.

<Specifications>

● Logger

Applicable sensitivity section
of the precipitation gauge : Tipping bucket type (0.5mm/tipping, 1mm/tipping)

Maximum measurement range : 2047mm (This is in case of using a tipping bucket
of 0.5mm/tipping, and based on the period of a
measurement/time interval.)

Measurement time interval : 1 minute to 10 days
(Setting feasible in the unit of 1 minute)

Memory capacity : 80 KB (Maximum 10,240 can be acquired)

Interface : RS-232C

Baud rate : 300 – 9600 bps (9600 bps in case of the power
supply being set ON)

Data length : 8-bit

Parity : Non

Stop bit : 2-bit

Flow control : Xon/Xoff, or non
(Xon/Xoff is applicable only at time of transferring
Data FORMAT2. When the power supply is ON,
Xon/Xoff is effective.)

Working voltage range : 4.5 – 9.0 V

Applicable cell

Lithium cell : C-size cell (3V) x 2 (The cell designated by our
company.)

Current consumption

(at time of Power supply 5.0 V)

When CPU is in stand-by mode: 1mA or lower

When CPU is extending performance: 60mA or lower

Working temperature range : -10 – 50 degree C

Material for the Case : PVC

Structure : Drip-proof structure

Dimensions : 180 x 80 x 70 mm

Standard Cable Length : 2m (from tipping bucket to logger)
(It can be extended to 30m at maximum.)

● Tipping Bucket

Measured Method : Tipping bucket

Operation Temperature : -10 – 50 degree C

Dimensions : approx. 230mm x H 456

Please note specifications are subject to change without notice for the improvement.



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