

## 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

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

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