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**: 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