

## Level Memory ZW2

### Features 1.Immersion-type 2.Titanium

- System consisting of an immersion-type water level meter and a 1-channel data logger. Data is transferred to a PC using a data collector.
- Atmospheric correction is not required because atmospheric pressure is released via the vent filter of the waterproof casing housing the water level meter cable and logger.
- Can be selected from a range of 2 m, 5 m, 10 m, 30 m, and 50 m.
- Lightweight, compact, and environmentally robust for high-accuracy measurement
- Exchangeable batteries enable long-term measurement.
- Ideal for water level observation for seawater and brackish water areas



### Specifications

|                            |   |   |                         |
|----------------------------|---|---|-------------------------|
| Water level meters         | 2m instrument   | 0 to 2m   | Model : HM-680-02-30-CN |
|                            | 5m instrument   | 0 to 5m   | Model : HM-680-05-30-CN |
|                            | 10m instrument  | 0 to 10m  | Model : HM-680-10-30-CN |
|                            | 30m instrument  | 0 to 30m  | Model : HM-680-30-30-CN |
|                            | 50m instrument  | 0 to 50m  | Model : HM-680-50-50-CN |
|                            | Cable length  | 30m (standard) ; extensible up to 200 m   |                         |
|                            | Materials   | Main unit : Titanium, Fluororubber, POM Cable : Polyurethane  |                         |
|                            | Electrical characteristic   | Power supply : 8 to 12V Output : 1 - 5V   |                         |
|                            | Accuracy (linearity)  | ± 0.3%F.S. (± 0.2%F.S.)   |                         |
| Temperature characteristic | Zero temperature characteristics : ± 0.01%F.S. ( - 2 to 30°C)   |   |                         |
| External dimensions        | Main unit : φ 29.5 × 190 Weight : Approx 200g Cable : φ 8 Weight : Approx 65g/m   |   |                         |
| Data loggers               | Model   | LM-2  |                         |
|                            | Number of input channels  | 1 channel   |                         |
|                            | Measurement performance   | Resolution : mm/cm 1/1000 of the input voltage (standard)   |                         |
|                            | Measurement interval  | 1 to 30 seconds 1 to 60 minutes   |                         |
|                            | Recording mode  | The instantaneous value is recorded / statistics recording (Instantaneous, maximum, minimum, and average for each interval) |                         |
|                            | Recording count   | Instantaneous value : 60,000 times Statistics : 15,000 times  |                         |
|                            | Record retention time   | 2 start operations (from start to stop)   |                         |
|                            | Preheating function   | OFF / 0.5 / 1 / 2 / 5 / 10 / 30 / 60 seconds setting  |                         |
|                            | Measurement start/stop function   | Immediate / setting the reserved time   |                         |
|                            | Display   | LCD measured value (Voltage), record state, Interval, battery level, number of recorded data etc.                           |                         |
|                            | Output adjustment function  | Zero point adjustment with multi-turn trimmer   |                         |
| Case                       | Waterproof plastic casing IP66 78 (W) × 126 (H) × 75 (D) mm Weight : Approx. 500g   |   |                         |
| Atmospheric relief         | Vent filter   |   |                         |
| Power supply               | For water level gauge : 006P Type 9-V alkaline battery: 2 Life expectancy: approximately 6 months Logger : AA alkaline battery: 1 |   |                         |
| Operating temperature      | - 20 to 70°C (no freezing allowed)  |   |                         |
| Data retrieval             | Infrared optical communication, communication adapter LR5091, and data collector LR5092 are used.                                 |   |                         |

### A data collector (to be purchased separately)

|              |  |
|--------------|--|
| LR5091       | Connect the data collector to both the data logger and PC to transfer data. 83 (W) × 61 (H) × 19 (D) mm Weight : 43g   |
| LR5092       | Save the data of the data logger to the internal memory or SD card, and transfer the data to the PC using the SD card. AA alkaline battery: 2 91 (W) × 141 (H) × 31 (D) mm Weight : 215g Functions: Graph display, data list, data processing, scaling, printing, etc. |
| Accessories  | USB cable (1m), LR5000 Utilities (CD-R)  |
| Supported OS | Windows XP (SP2 or more) Vista (SP1 or more), 7  |

### Uses

- Tidal level observation for seawater ● Water level observation for brackish water areas near river mouths
- Long-term water level observation for wells and groundwater ● Water level observation for rivers
- Water level observation for dams, lakes, and reservoirs

### System example

