



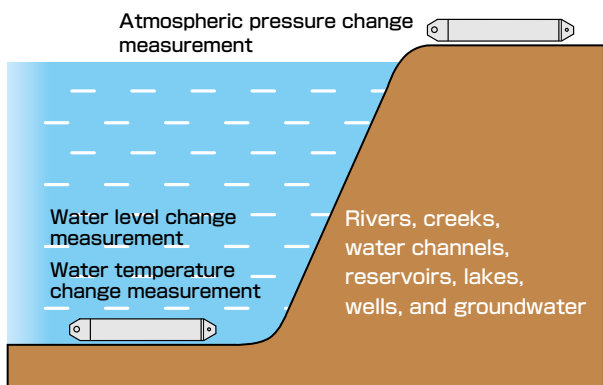
WLG

Features 1.No cables 2.No need to atmospheric relief

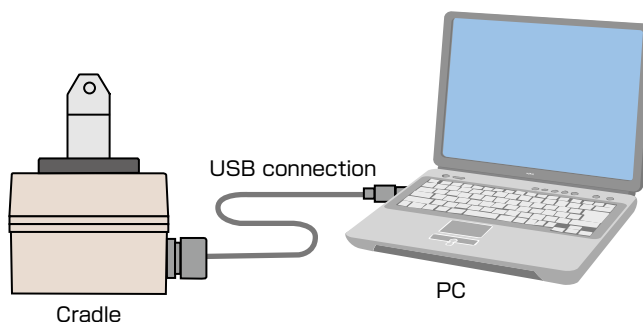
- Water level meter integrated with a built-in data logger
- Lightweight and compact with an environmentally robust casing made of stainless steel
- A desired model can be selected from a range of 2 m to 50 m for highly accuracy measurement.
- The built-in battery ensures long-term measurement for approx. three years and can be replaced with a new one (the replacement work to be done by the manufacturer).
- Atmospheric correction is performed after measurement is made with an atmospheric pressure sensor.
- The measurement data can be retrieved easily simply by inserting the meter into the cradle (to be purchased separately).



System example

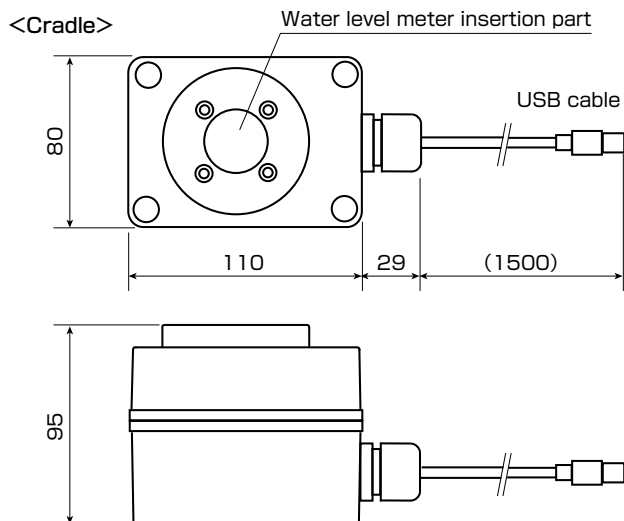
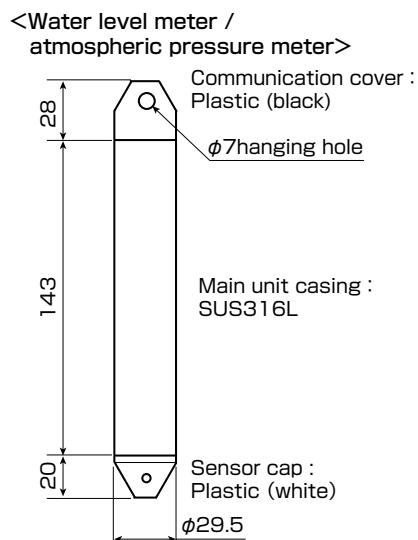


The water level meter for water level change measurement (WLG series) is immersed in water, and the atmospheric pressure meter for atmospheric pressure change measurement (WLG-00M) is installed on the ground.



After the measurement, insert the water level meter into the cradle connected to the PC and load the data to the PC. Accurate water level data is calculated by subtracting the changes in the atmospheric pressure.

Dimensions (Units : mm)





Water Level Meters with Built-in Data Loggers

Specifications

Model	WLG					
	-02M	-05M	-10M	-20M	-30M	-50M
Measurement range (kPa abs)	0 to 2m (120)	0 to 5m (150)	0 to 10m (200)	0 to 20m (300)	0 to 30m (400)	0 to 50m (600)
Resolution (Pa)	0.1mm (1)	0.2mm (1.6)	0.3mm (2.6)	0.5mm (4.5)	0.7mm (6.5)	1.1mm (10.3)
Pressure type	Absolute pressure					
Overpressure	200% of the rated pressure					
Wetted part material	Diaphragm : SUS316L Pressure port : SUS316L O-ring : Fluororubber Communication part : Polycarbonate					
Number of channels	2 (Water level / water temperature)					
Water level Precision (linearity)	± 0.3% F.S. (± 0.2% F.S.)					
Water level Temperature characteristics	Zero temperature characteristics: ± 0.01% F.S. (Compensated temperature range 0 to 40°C)					
Water temperature Measurement range	- 20 to 50°C					
Water temperature Resolution	0.125°C					
Water temperature Response speed	5 minute					
Number of data records	32,000 data					
Measurement interval	1 minute, 2 minute, 3 minute, 5 minute, 10 minute, 20 minute, 30 minute, 1 hour, 2 hour, 3 hour, 5 hour, 6 hour, 10 hour, 12 hour					
Power supply	Built-in lithium battery (Replaceable at our company Factory)					
power life	Approximately 3 years (Sampling time of 1 minute)					
Operating temperature range	- 20 to 50°C (no freezing allowed)					
Altitude range	Up to an altitude of 3000 m					
Weight	approx 390g					
Data retrieval method	Connect the meter to the cradle, and retrieve data using software.					

Atmospheric pressure meter specifications

Model	WLG-00M
Rated pressure	69 to 103kPa
Pressure type	Absolute pressure
Resolution	0.1 mm 0.7Pa

Cradle specifications

Model	WLG-CD-01
Communication method	Water level meter : Infrared communication PC : RS 232C communication
Operating temperature range	5 to 35°C
Structure	Drip-proof structure
Weight	approx 480g

Software (accompanying CD)

Model	WLG-PG-10
Measurement start and stop	Settings to start and stop the water level meter
Point 1 setting	20 single-byte alphanumeric characters
Point 2 setting	Select underwater or atmosphere.
Interval setting	Measurement interval time setting
Data retrieval	Store the water level, atmospheric pressure, and temperature in CSV format.
Communication setting	Set the communication method (manual or automatic).
Time setting	Set the internal time of the water level meter.
Reference atmospheric pressure correction	Atmospheric pressure meter-based correction function
Supported OS	Windows Vista, 7, 8, 8.1

Option

Hanging wire	Model : W-WIRE- □□m Material : Stainless steel φ 1.5 mm
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Model

< Water level meter >

W	L	G	-	0	5	M
Type	Measurement range	Pressure unit				M : m

Measurement range
00 : For measuring atmospheric pressure
02 : 2m
05 : 5m
10 : 10m
20 : 20m
30 : 30m
50 : 50m

< Cradle >

WLG-CD-01