

Reed Switch Type Water Level Gauge



- Accurate measurement: Direct measurement of the water level change with the float allows accurate measurement ($\pm 1.0\text{cm}$), regardless of the measurement scope
- Simple measurement principle: The water level is converted to electronic signal by turning ON/OFF the lead switches with magnet



This product has a number of reed switches vertically at 1cm intervals. The float with a built-in permanent magnet moves up and down according to change in the water level, and it turns on the switch at a level in the gauge to sense the water level.

The water level is converted to electronic signal, which is input to a water level coder installed at a facility, allowing BCD output and recording to a SD card.

Specifications

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Detection method	Digital signal generated by the magnetic float and reed switches
Accuracy	±1cm
Resolution	1cm
Output Signal	Decimal signal by contact ON / OFF (with voltage)
Analysis Method	Diode matrix
Number of output cables	Ones place 10 pieces Tens place 10 pieces Hundreds place Depends on the measurement range
Arrester circuit	Surge voltage Max.700V (8×20μs)

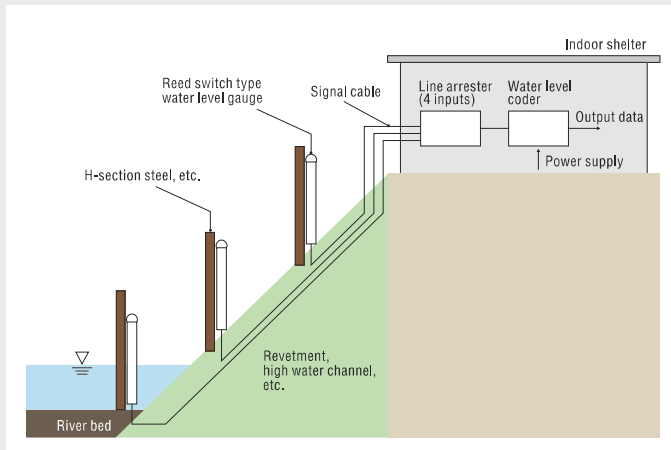
Dimension table (excluding the float)

Measuring range (L1)	Length (L)	Weight
1.0m	1,620mm	17.3kg
1.5m	2,120mm	21.8kg
2.0m	2,620mm	25.8kg
2.5m	3,120mm	29.3kg
3.0m	3,620mm	33.3kg
3.5m	4,120mm	37.7kg

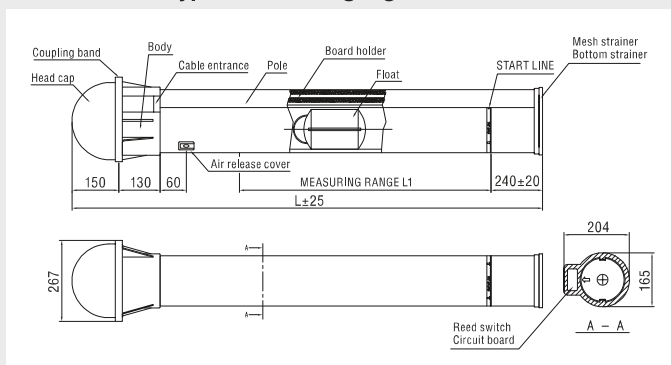
Water level coder

Model	WLC3-V1—IA B C D E F G	
	A) Analog output	0: No, 1: 4 to 20mA, 2: 0 to 5V, 3: 0 to 10mV
	B) BCD output	0: No, 1: Yes 1 for each, 2: Yes 2 for each
	C) Comparison output	0: No, 1: Yes
	D) Printer	0: No
	E) SD Card slot	0: No, 1: Yes
	F) Power supply	D1: DC12V, A1: AC100V
	G) Serial output	Blank: RS232C, R4: RS422
Display・Operation	LCD touch panel	
Processing functions	Average calculation	
	None averaging Moving average	20 sec, 1 min, 5 min, 10 min (every 1 sec) or (every 2 sec)
	Weighted average	5 sec, 10 sec, 15 sec (every 1 sec)
	Level setting	-999.999m to +999.999m
Input type	Reed switch type water level gauge	
Input number	1 (Up to 10 pillars can be connected per water level)	
Power supply	Select from DC12V or AC100V 50/60Hz	
Dimensions	480W x 99H x 300D mm (excluding protruding parts)	
Weight	7kg or less	
Output	1) Analog output	2 channels at 1 input, select from 4 to 20mA, 0 to 5V or 0 to 10mV
	2) BCD output	2 channels (Max.) at 1 input, BCD output 5 digits with odd parity
	3) Comparative output	8 points at 1 input (A,B,C,D≤H or A,B,C,D≥H), Non-voltage A contact (Photo MOS relay output)
	4) Card recording	Recording media: SD card (Maximum 2GB) Recording Interval: No, 1, 2, 5, 10, 15, 20, 30 (min), 1, 2, 3, 6 (hour) Recording capacity: 1 year or more (at 1 min recording)

Configuration diagram



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