TAKUWA

VM-10AS Series

Reed Switch Type Water Level Gauge

- Accurate measurement: Direct measurement of the water level change with the float allows accurate measurement (±1.0cm), 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

https://www.takuwa.co.jp/en/

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

Reed switch type water level gauge

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	Surve voltage Max.700V (8×20μs)

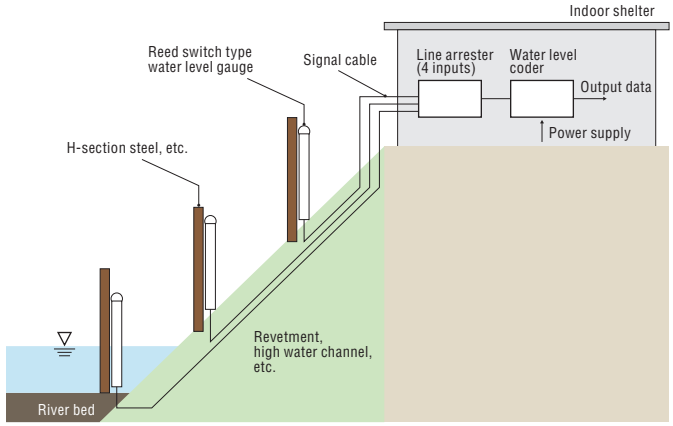
Dimension table (excluding the float)

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

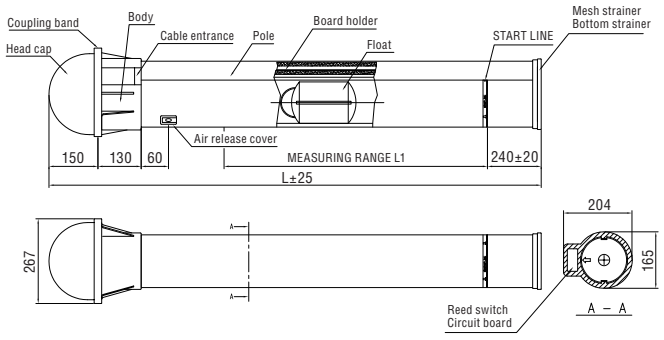
Water level coder

Model	WLC3-V1—IAIBICIDIEIFIGI 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)

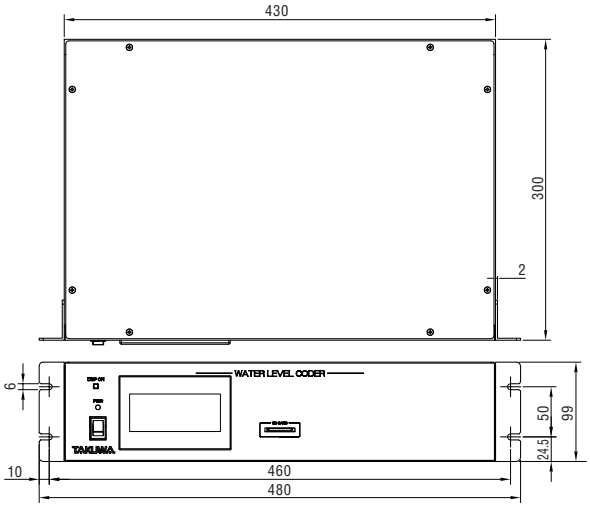
Configuration diagram



Reed switch type water level gauge



Water level coder



TAKUWA

Inquiry:E-mail e-info@takuwa.co.jp

1-4-15 Uchi-kanda, Chiyoda-ku, Tokyo 101-0047 Japan
Tel:+81-3-3291-5380,Fax:+81-3-3291-5226

ISO 9001
ISO 14001
ISO 45001
BUREAU VERITAS Certification
UKAS MANAGEMENT SYSTEMS
0008