

Quartz Type Water Level Gauge



- High-accuracy measurement with a quartz oscillator
- Easy installation on revetments and structures
- Simple, easy maintenance and management
- Wider measuring range



As changed with the water level, water pressure is measured using a quartz oscillator, calculating the water level from the oscillating frequency.
High accuracy measurement, without a conversion error caused by the secular change commonly seen in diaphragms.
A wide measurement range, from 10m to 70m, applicable not only to rivers but also to dams.

Specifications

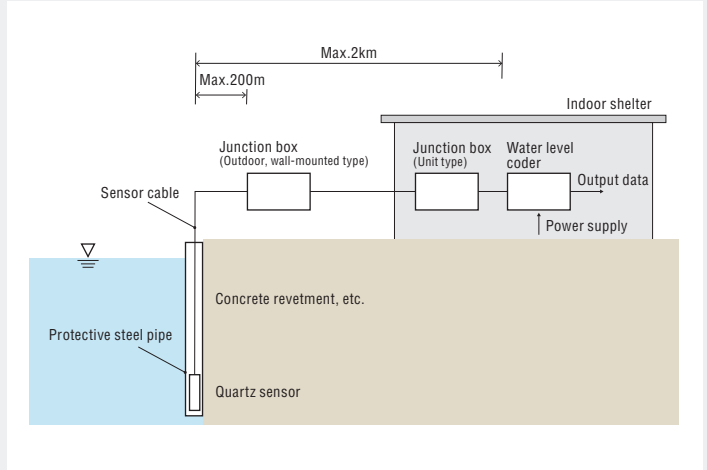
Quartz sensor

Model	QS-10(measuring range 0 to 10m) QS-20(measuring range 0 to 20m) QS-30(measuring range 0 to 30m) QS-50(measuring range 0 to 50m) QS-70(measuring range 0 to 70m)
Accuracy	$\pm 0.05\%$ FS $\pm 0.02\%$ FS:QS-H□□ $\pm 0.01\%$ FS:QS-S□□□(QS-70 not allowed)
Temperature coefficient at 0 point	$\pm 0.0007\%$ FS/°C
Temperature sensitivity coefficient	$\pm 0.0049\%$ FS/°C
Overload resistance	120%FS
Power supply	DC12V(10.5 to 16.5V)(supplied from the Water level coder)
Operating condition (temperature, humidity)	-10°C to +70°C (No freezing)
Material	SUS316L or Titanium(for sea)
Dimensions	240 x ϕ 60 mm
Weight	Approx.3kg
Cable	Dedicated cable(Sensor to Junction box) Max.200m

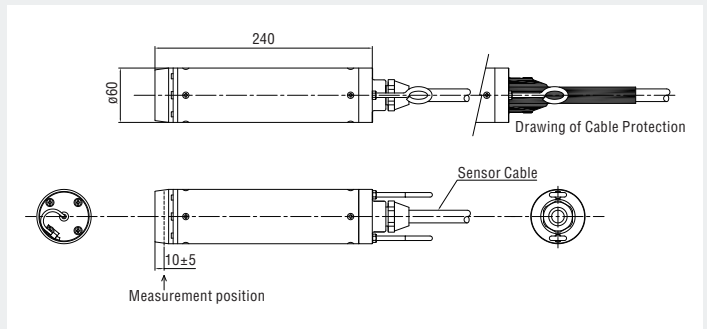
Water level coder

Model	WLC3-Q A — B C D E F G H A) Sensor input 1: 1 sensor, 2: 2 sensors B) Analog output 0: No, 1: 4 to 20mA, 2: 0 to 5V, 3: 0 to 10mV C) BCD output 0: No, 1: 1 sensor, 2: 2 sensors D) Comparison output 0: No, 1: Yes E) Printer 0: No F) SD Card slot 0: No, 1: Yes G) Power supply D1: DC12V, A1: AC100V H) 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, 10sec, 15 sec (every 1 sec) Level setting -999.999m to +999.999m
Input type	Quartz sensor(Frequency signal 28 to 44 kHz)
Number of input	2 channels(Max.)
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 \leq H or A,B,C,D \geq 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



Quartz sensor



Water level coder

