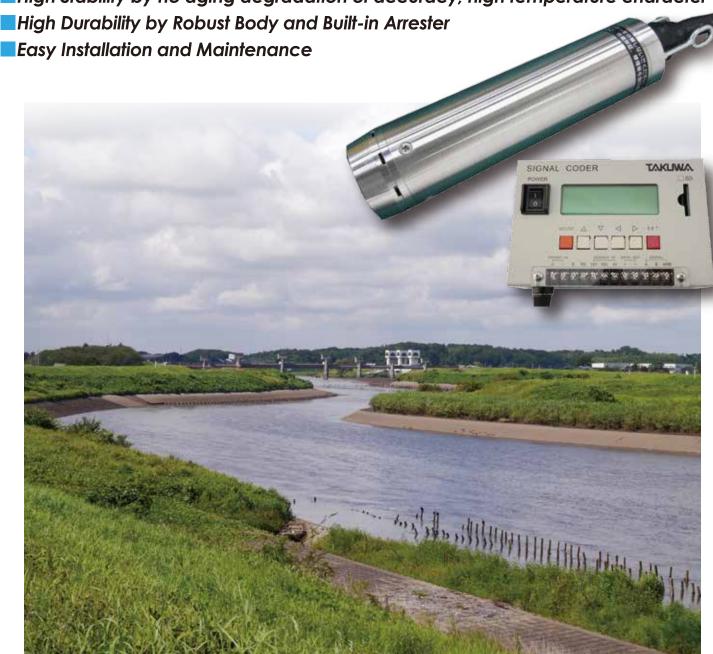




Quartz Type Water Level Gauge

The greatest accuracy 0.01% F.S.!

- High Accurate Water Level Measurement (selectable $\pm 0.05 \%$ / ± 0.02 / $\pm 0.01 \%$ F.S.)
- ■Wide Measurement Range (selectable 10/20/30/50/70m)
- High Stability by no aging degradation of accuracy, high temperature character





Summary

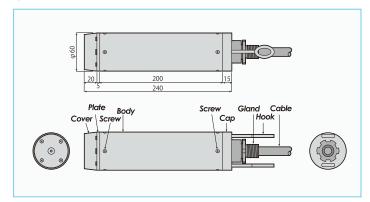
The quartz type water level gauge is pressure type sensor using a quartz oscillator of the same standard as for clocks or communication equipment. Water pressure that changes with water level is applied to the quartz oscillator, and the water level can be detected from the change in oscillation frequency, providing high-accuracy measurement.

Additionally, there is no conversion error caused by aged deterioration of a diaphragm, etc. like a conventional pressure type sensor.

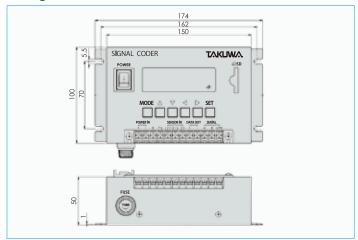
The measurement range covered by a single unit is as extensive as 10m-70m. Consequently, it can be applied not only to a river but also to a dam, reservoir and tidal level measurement economically. Easy installation and maintenance are possible.

Outline drawing

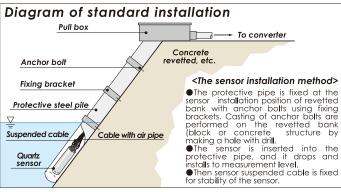
Quartz sensor



Signal coder



System block diagram Max200m Max200m Junction box (Outdoor, wall-mounted type) Indoor shelter



Specifications

Quartz sensor

●Model :QS-10 (for measuring range 10m)

Q S-20 (for measuring range 20m) Q S-30 (for measuring range 30m) Q S-50 (for measuring range 50m) Q S-70 (for measuring range 70m)

Accuracy :0.05% F.S.

0.02% or 0.01% F.S (High accuracy type)

●Temperature coefficient at 0 point :0.0007% F.S/°C :0.0049%/°C :0.0049%/°C

Overload resistance: 120%

● Power supply :DC12V (10.5~16.5V)

• Current consumption: 3mA

Material :SUS316 or Titanium (For sea)

Dimension⇒Weight⇒Weight⇒240×Ф60mm⇒approx. 3kg

Dedicated cable (Sensor to J.Box): Max. 200m

Captral cable (J.Box to codes): Max. 200m

Captral cable (J.Box to codes): Max. 200m

-General cable (J.Box to coder): Max. 2km

Signal coder

●Model : QSC-□

☐: Output signal option(1: DC4-20mA, 2: DC1-5V)

●Input form : Frequency signal 28–44kHz ●Display : LCD

Operation : 6 key switch

Output : DC4-20mA or DC1-5V (option:RS-485)

Power supply : DC12V

●Current Consumption : 300mA and less ●Ambient Temperature : -10 to 50 °C ●Dimension : 174W × 100H × 50D mm

●Weight : 1.5kg or less

Example of installations





Urban river

General river

**Information in this document is subject to change without notice

