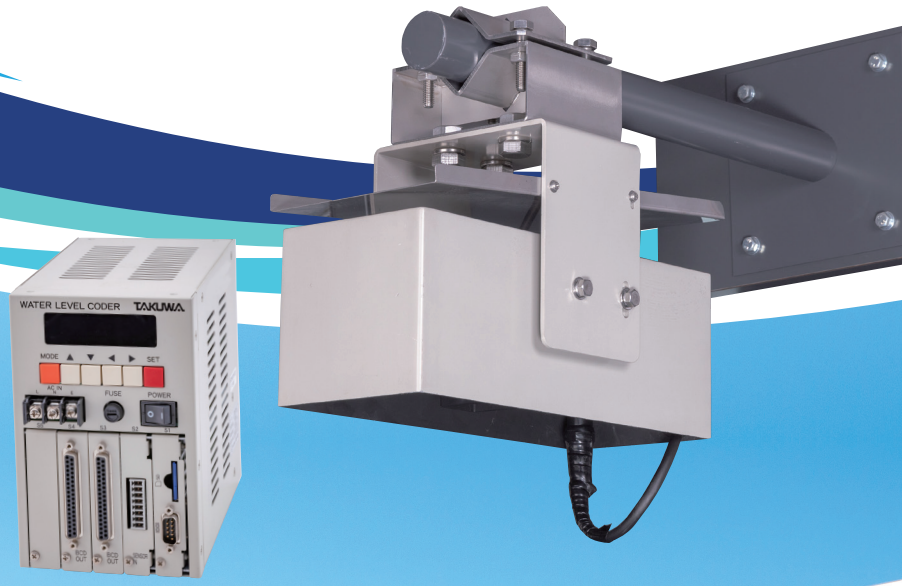
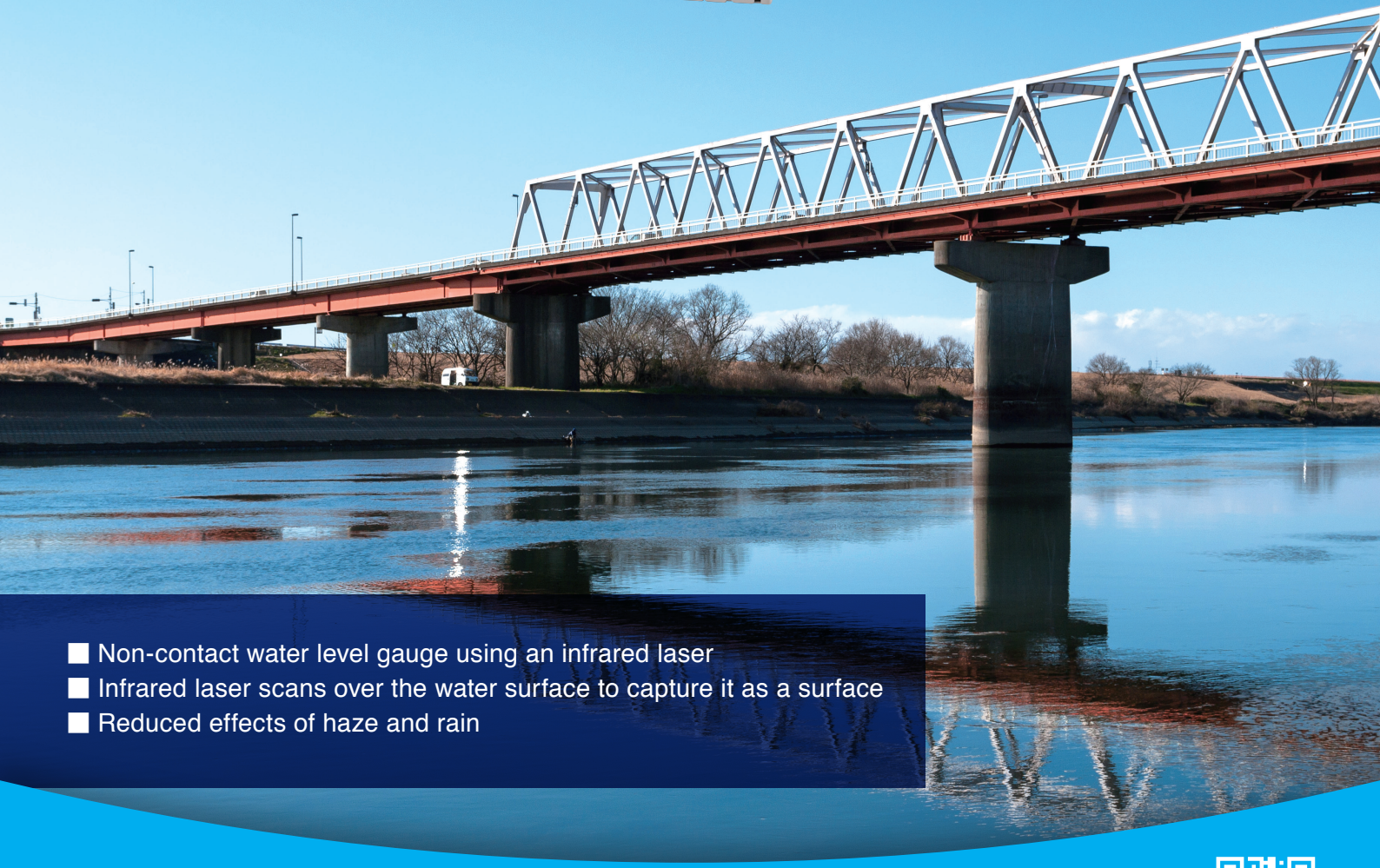
TAKUWA

LSW Series

Laser Scanning Type Water Level Gauge





- Non-contact water level gauge using an infrared laser
- Infrared laser scans over the water surface to capture it as a surface
- Reduced effects of haze and rain

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The distance to the water surface is measured based on the infrared laser propagation time from the reflection to the reception of the infrared laser exposed to the surface. The water level is calculated by subtracting this distance from the height of sensor installation position. Compared to our previous models, effects of rain and fog are reduced by scanning the infrared laser over the water surface to capture it as a surface.

Specifications

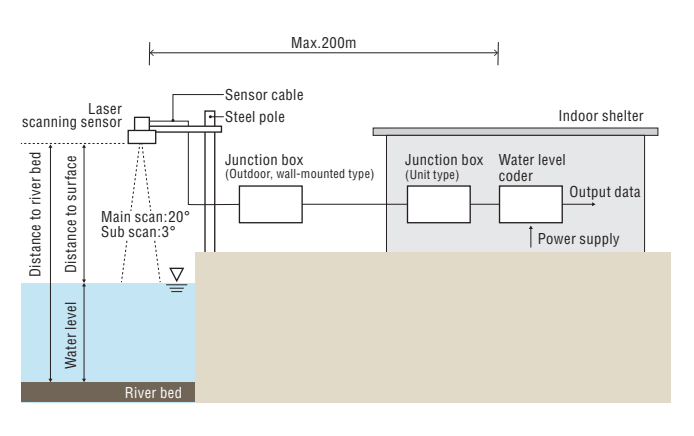
Laser scanning sensor

Model	LSW-30S
Measuring method	Infrared laser two-dimensional scanning method.
Measuring range	Max. 0.6 to 30m (for still water)
Accuracy	±1cm
Laser scanning angle/ time	Main scan -10 degrees to +10 degrees/50ms Sub scan -1.5 degrees to +1.5 degrees/2.5s
Output	RS422 signal 5-Wire
Power supply	DC24±10% (supplied by the water level coder)
Operating condition (temperature, humidity)	-10°C to +50°C (No freezing)
Material	Aluminum
Dimensions	365W x 228H x 183D mm
Weight	Approx.5kg

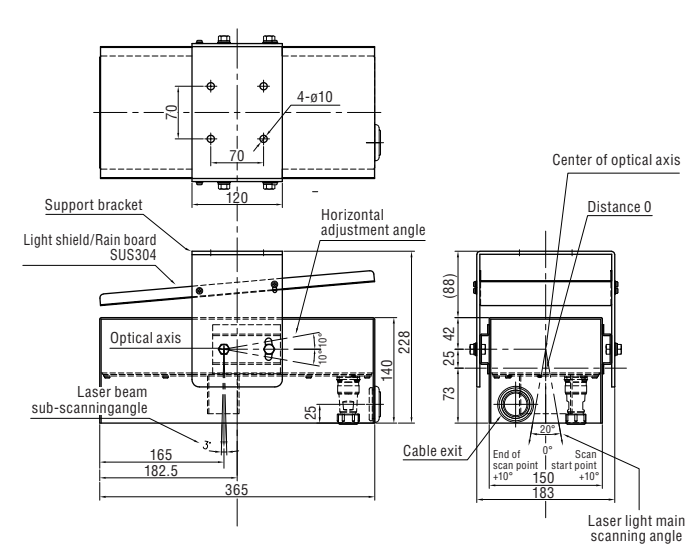
Water level coder

Model	LSW-CW-|A| A) Power supply D: DC12V/DC24V, A1: AC100V
Display・Operation	VFD(Fluorescent display tube), 16 characters × 2 lines display, 6 Key Operation
Processing functions	Water level calculated from the measured distance (with a level correction function enabled) Averaging process Output hold process for a sudden change of the water level
Input type	Laser scanning sensor (RS422)
Power supply	Select from DC12V/DC24V(10.8 to 27.5V) or AC100V(90 to 110V)
Dimensions	115W x 199H x 180D mm (excluding protruding parts)
Weight	3kg or less
Output	1) BCD output 2 channels(Max.) at 1 input, BCD output 4 digits with odd parity 2) Serial signal output RS232C output port is 1
Card recording	Recording media：SD card(Max2GB) Recording interval：No, 1, 5, 10, 30, 60 min Recording capacity：1 year or more(at 1 min recording)

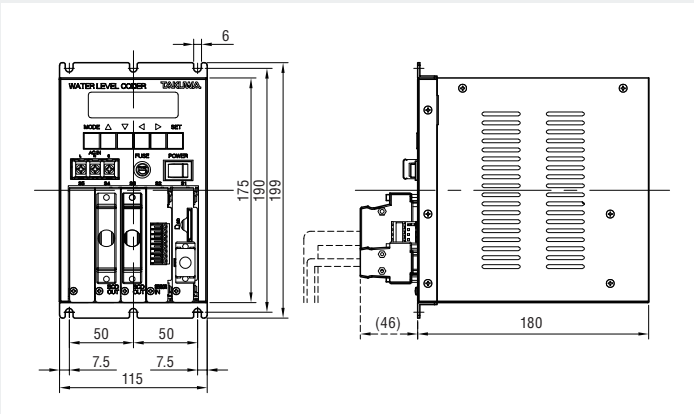
Configuration diagram



Laser scanning sensor



Water level coder



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