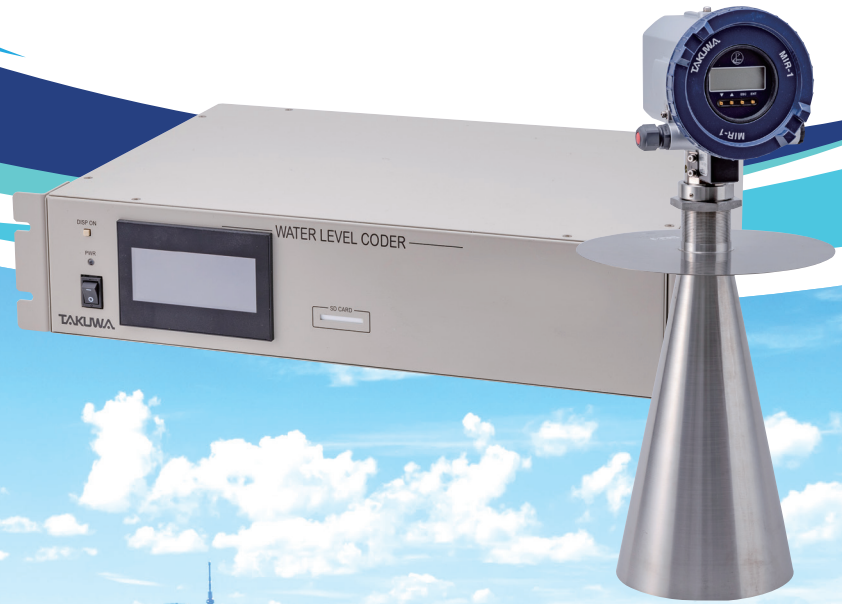


Microwave Type Water Level Gauge



- Stable measurement without thermal or pneumatic impacts
- Low-power transmission with no impacts to the human body or environment
- Non-contact measurement with least impacts from drift woods or sediment



The distance to the water surface is measured by multiplying the propagation time, in which the microwave pulse transmitted to the water surface reflects on the water surface and is received, by 1/2. The water level is calculated by subtracting this distance from the installation height. The microwave allows stable measurement on the rivers without impacts from the environmental conditions and the temperature of the measurement subject. The microwave used is low-powered transmission, giving no impact to the human body or environment.

Specifications

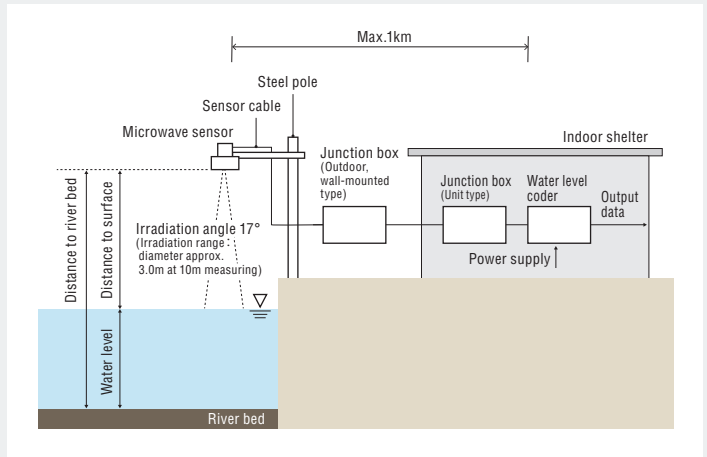
Microwave sensor

Model	MIR-1
Measuring method	Microwave pulse radar
Microwave frequency	5.8GHz
Measuring range	0 to 10m (for river), 0 to 20m (for still-water level)
Dead zone	up to 0.5m below the flange mount position
Accuracy	±10mm
Output signal	DC4 to 20mA
Power supply	DC16 to 36V (supplied from the water level coder)
Operating condition (temperature, humidity)	-20°C to +70°C (No freezing)
Material	Body : Aluminum die casting Antenna : SUS316
Dimensions	265W x 584H x 265D mm
Weight	Approx.5kg

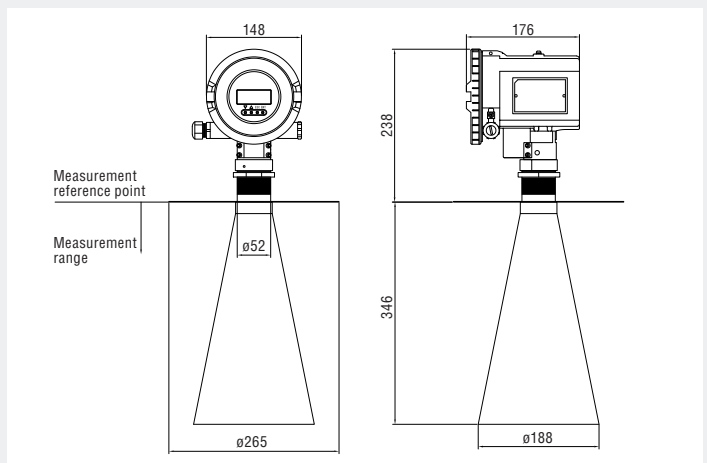
Water level coder

Model	WLC3-ARIAI—IBICIDIEFIGIHI 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:Yes 1 for each, 2= Yes 2 for each D) Comparison output 0:No, 1:Yes E) Printer 0:No F) SD Card slot 0:None, 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, 10 sec, 15 sec (every 1 sec) Level Setting -999.999m to +999.999m
Input type	Microwave sensor (DC4 to 20mA)
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 ≤ 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



Microwave sensor



Water level coder

