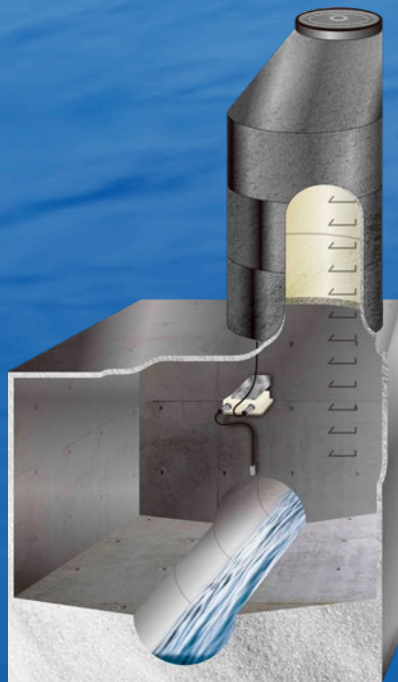


Measurement Unlimited by The Imagination.

Hybrid Level Gauge

**HC-10**



intelligent  
**DIGITAL**  
SYSTEMS

## Features

### 1. Wider coverage of measuring range

HC-10 realizes total 18m coverage of flood water level measurement by integrating both advantage of non-contacting radar measurement method and pressure measurement method into 1 device.

### 2. Automatic Switching System

During non-flooding conditions, HC-10 measures by non-contacting radar. Once the water level rises, the measurement method is switched to absolute pressure measurement automatically.

### 3. Automatic Calibration System

Radar sensor of HC-10 calibrates absolute pressure sensor before switching the measurement method to avoid any fluctuations in the continuity of water level measurement.

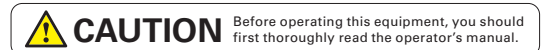
### 4. Least maintenance required

In case of non-flooding conditions, HC-10 measures water level with a non-contacting method. Therefore, minimal maintenance is required.

## Specifications

Measurement	Method	Microwave Pulse Radar/Pressure Sensor Combination		
	Antenna	Microstrip antenna	Material : Hard PVC (Heat resistance) Beam Angle : E plane 50°/H plane 23°	
	Diameter Range	Over 200R (Over φ400)		
	Accuracy	Microwave Method	±5mm (0.3~5m)/±10mm (5~10m)	
		Pressure Method	±50mm	
	Range	18m (Microwave Method : 10m Pressure Method : 8m)		
Interval	1 second			
Output	Microwave Output	Frequency	5.8GHz	
		Power	less than 35μV/m @3m (Low power microwave)	
	Analog Output	Resolution	0.4μA	
		Alarm Output	Hold/Low(3.9mA)/High(22mA)	
		Temperature Dependence	Less than ±0.05%FS/10K and 0.5%FS p-p	
	Digital Output	Communication System	using HART modem	
Resolution		1mm		
Operational Power	2 wire (Looped-powered) DC 16V~36V			
Temperature	-20°C ~ +70°C (However, the pressure sensor must not freeze.)			

Design and specifications are subject to change without prior notice, and without any obligation on the part of the manufacturer.




TOKYO KEIKI INC.

[www.tokyoikeiki.jp/e/products/measurement/](http://www.tokyoikeiki.jp/e/products/measurement/)

Measurement Systems Company

Head Office

HANEDA INNOVATION CITY Zone B 1-1-4 Haneda Airport, Ohta-ku, Tokyo 144-8551 JAPAN

TEL: +81-3-3737-8664 FAX: +81-3-3737-8665