

Emitted in the air type Ultrasonic system Wave height meter

MODEL UH-401

UHT3-10 UHS-1 UHS-2

For observation of waves and tide level of shores,
water level of rivers, snow falls or melting snow of distance area.
Also, temperature can be measured simultaneously.



Introduction

This system is used for non-contact measurement of wave height, water level and snow falls by ultrasonic, even under the severe natural conditions, stabilized and long period of measurement is possible without maintenance.

No-man observation for remote site such as sea shore, rivers, dams or mountain area are possible. Especially, high speed current, flow contained with muds, stones and sands, also snow falls or melting snow on the mountain area can be observed by real time, thus wield the power for traffic and prevention of natural disasters.



Features

1. Meet to various observation phenomena - Water levels, snow falls etc.
2. Non-contact measurement - Accurate measurement for high water level or high current velocity as non-contact to the water surface. Easy for transport and no maintenance.
3. Accurate measurement of wave height - High speed measurement assures measurement of wave height changes accurately, also error by temperature change is fully compensated automatically.
4. High ultrasonic wave emission of output and noise proof construction, without influence of rain, snows, hails and winds etc.
5. Equipped analog output and digital output-Observation of distance site is easy with connection of modem, temperature, wave height, water level or snow falls can be measured real time through telephone circuits.
6. Simple and low cost setting - Ultrasonic wave emitted in the air, so, no structure in underwater, and easily be installed on existing pier or the like.

[Standard specifications]

System	Ultrasonic waves in the air pulse reflection method
Measuring range	Around 1m from Straight down of Detector
Measuring distance	10m. There is a blind zone. From datum point of detector to within 1 meter it Measurement of water level or tidal level is possible upto 14m. In case of analog output is upto 10m.
Measuring accuracy	±0.2%/10 m. Resolution is 4 mm.
Sampling period	0.1 sec.
Display	-30~60°C Please select Funnel Temp. Detector or Poratable Temp. Detector Indication of contents changed by switching Wave Height : 4 digits cm Temperature : digital point 1 digit°C
Analog output	OUTPUT 1 : 0-5 V/F.S. Load over 10KΩ OUTPUT 2 : 2.5 V/F.S. Load over 10KΩ This can be Zero adjusted.
Digital output	RS-232C
Calibration signal	0.5 V at one meter.
Power source	100 V ±10 V 50/60 Hz Approx. 30 VA
Operating Temp.	Detector -30~45°C This is Drip proof construction Main Unit 0~40°C 20~80% RH No be dewy.
Dimensions Approx.	Sensor 160 W×380 H×160 D mm 3.7 kg.
Weight Approx.	Thermometer 30 φ ×80 L mm 1 kg. This weight is every 50 meters Vent sleeve thermometer 134 W×370 H×200 D mm 3.1 kg. Main Unit 436 W×100 H×300 D mm 4.5 kg.

[Components]

Main unit	UH-401	1
Detector	UHT3-10	1
Thermometer	UHS-1	1
Vent sleeve thermometer	UHS-2	1
Standard Accessories		1(*1)
Options		1(*2)
Please thermometer choose UHS-1 or UHS-2		

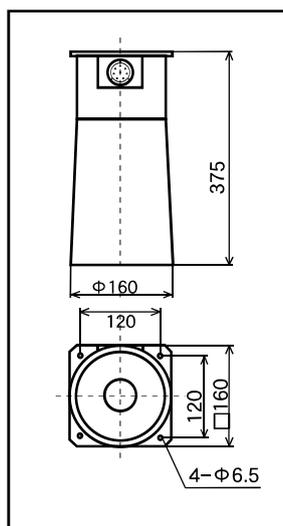
[Standard Accessories(*1)]

Power source cable	3 m	1
Output cable	1.5 m	3
Communications cable	3 m	2
Fuse 2A		2
Cloth cover		1
Instruction Manual		1

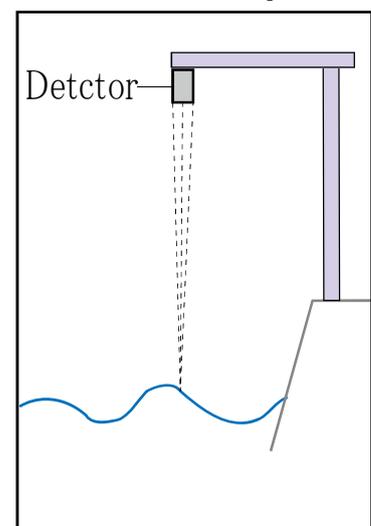
[Options (*2)]

Sensor connecting cable is max. 250m	
Vent sleeve thermometer connect cable is max. 50m	

[Detector UHT3-10 fig]



Installation example



Specifications subject change without notice.

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