HONDA ELECTRONICS CO.,LTD.

NEW

ULTRASONIC LEVEL METER

HD350

HD350-A / HD350-B

DSP Accurate measurement
Graphic display in compact body

DSP model
Stable measurement by DSP

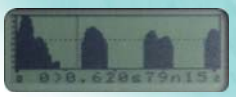
Compact one unit includes sensor and control circuit
Housing material is chemical-resistant resin, PP.

Rich information display by graphic LCD
Easy and straight forward operation by Menu driven mode control and data image display

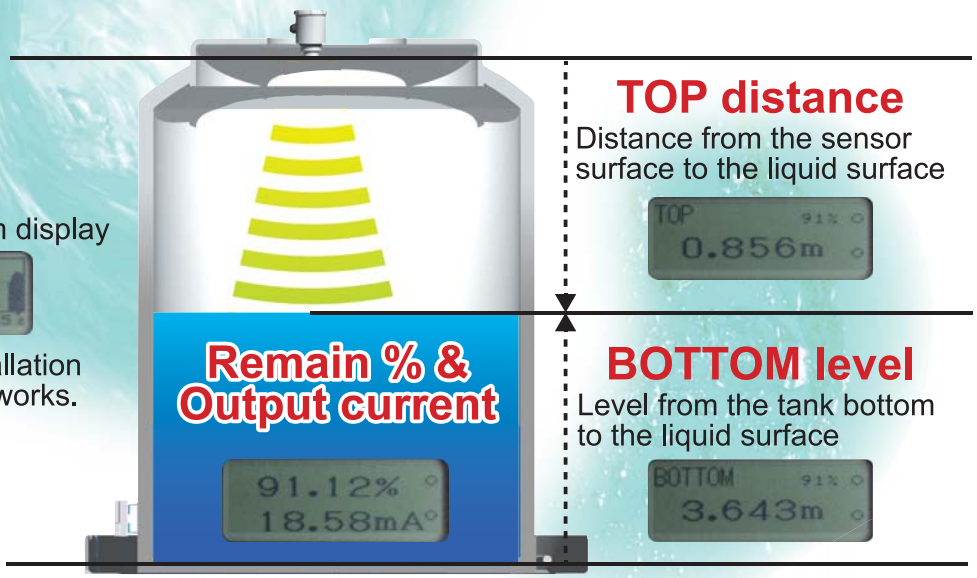
Wide measurement range
HD350-A: 0.3 - 10 m (1 - 33 ft.)
HD350-B: 0.15 - 4 m (0.5 - 13 ft.)
Reduced dead zone distance than conventional model

Four display mode
Display mode can be selected from 4 display modes.

A-mode
Refelected waveform display



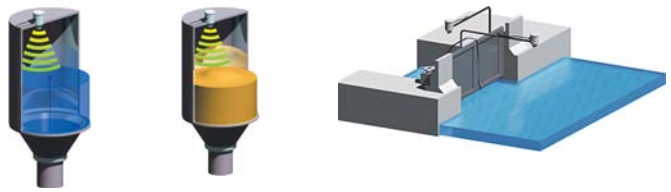
Useful for the installation and maintenance works.



Specifications
1) RS-485 (MODBUS protocol)
2) 4-20 mA current output
3) Alarm sensors / points

Open channel flow measurement
Measaures integrating or instantaneous flow of triangular, rectangular (with or without end contraction) or parshall flume.

Usage
- Level control of liquid, particurate level in a tank
- Level measurement of pond, lake or river
- Open channel flow measurement



■ Liquid level ■ Particulate level ■ Level control of a river

ULTRASONIC LEVEL METER

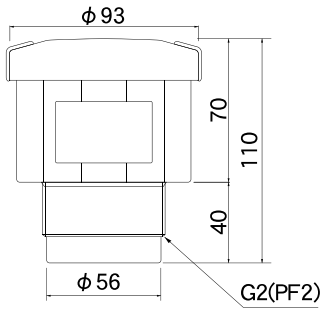
HD350

Specifications

Model		HD350-A	HD350-B
Channel		1 CH	
Frequency		50kHz	100 k Hz
Measurement Object		liquid, powder, particulate	
Measurement range		0.3~10m	0.15~4m
Resolution		1 mm	
Accuracy		±0.25%F.S. (±2.5cm)	±0.25%F.S. (±1.0cm)
Data update cycle		0.5 sec	
Sensor directive angle (beam angle)		14°(-6dB) / 10° (-3dB)	
Power source	Voltage	DC12 - 24V	
	Power consumption	3W	
Display		Graphic LCD	
Output	Alarm output (contact point)	1 point each top/ bottom NPN open collector	
	4-20 mA current	Resolution: 12 bit (Max. load 500Ω 24V)	
Interface		RS-485 (max. distance:1200 m)	
Operation temperature		-20 to 70 deg C	
Material		PP	
Protection		IP65 level (without cap: IP20 level)	
Dimension		dia. 93 x 110 mm	
Cord length		10 m	
Weight		350 g	
Screw		G2	

●Option: 30 m cord

Dimensions

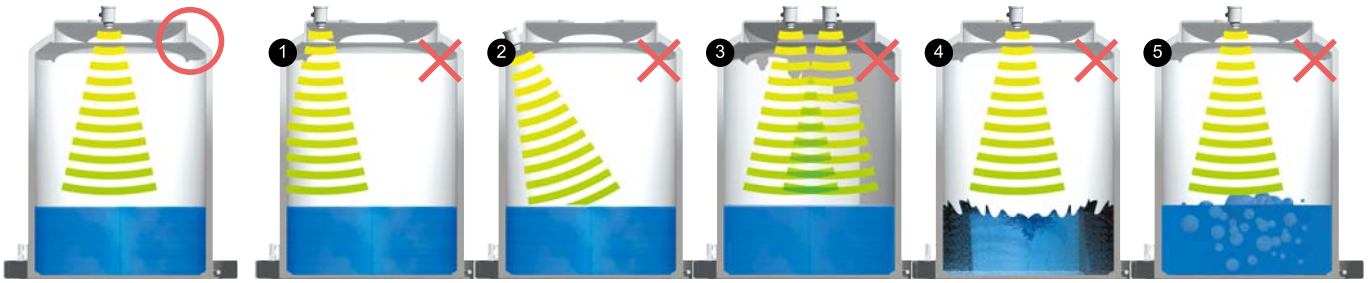


Notice for installation

* Do not install the unit inside of a tube like below image

* Do not use metal nut or metal flange. It may cause error on measurement.
* Please use nut or flange that made of plastic.

Ultrasonic Level Meter - Notes on sensor installation



- Avoid obstacles
  Make sure that no obstacles are interfered within the directivity angle of the sensor of the ultrasonic level meter. (❶)
- Make sure the sensor position
  Make sure the transmitting/receiving plane of the ultrasonic sensor is arallel to the object to be measured.Do not install a sensor in the center of a tank. (❷, ❹)
- Do not install more than one sensor
  Multiple ultrasonic sensors in a tank will interfere with another one. (❸)
- Avoid strong water movements or bubbles
  Swirling water and bubbles might have bad effect on precise measurement. (❹, ❺)

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Registered company for ISO9001and ISO14001

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