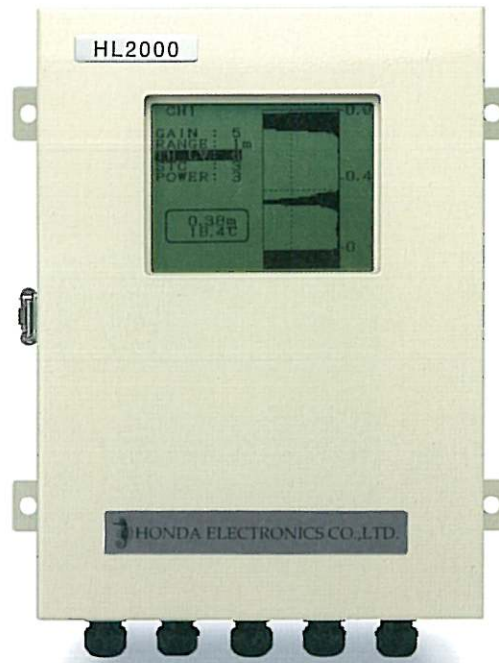




**Monitors sedimentation status
in various settling tanks.**



Product overview and features



A sensor installed underwater transmits an ultrasonic signal and receives the signal reflected from the interface or bottom. The meter measures the elapsed time and calculates the sedimentation status.

- **No contact with interface**
The sensor in a fixed position measures the interface without physical contact, eliminating potential problems with sensor entanglement with the rake.
- **Wide measurement range**
Measures from 0.4 to 10 m from the transmitting point of the sensor.
- **No drive unit**
Neither the main unit nor the sensor has a drive unit, eliminating the potential for interface disturbances. This helps ensure reliable measurements over extended periods.
- **Stable interface measurement**
Applies proprietary numerical processing to ensure stable interface measurements.
- **2-point Interface measurement**
The meter can be connected to two sensors to perform interface measurements at two points. (The second sensor is optional.)
- **The standard equipment configuration includes a cleaning nozzle and mounting pipe**
The sensor is equipped with a cleaning nozzle (water wash) and mounting pipe as part of the standard configuration.

Standard specification

Model No.	HL2000	
Number of channels	2 CH	
Frequency	400 kHz	
Object to be measured	Sludge interface	
Measurement distance range	0.4 to 10 m	
Resolution	1 cm	
Data update cycle	1 sec.	
Sensor directivity angle (beam angle)	6°	
Power supply	Voltage	AC85 to 264 V (50/60 Hz)
	Power consumption	10 VA
Display	LCD (monochrome)	
Output	Relay output	Upper/lower limit alarm output on 2 channels each(4lines)
	4-20 mA current output	AC250V,DC30V 5A
	(maximum load resistance)	16 bit RL (MAX) = 450 Ω
Interface	RS-232-C	

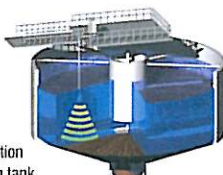
	Main unit	-P sensor
Operating ambient temperatures	-10 to 60°C	-5 to 60°C
Material*	Painted steel	Case/cable: PVC
Protection standard	IP54	IP68
Dimensions (W x D x H)	230 x 90 x 320 mm	Case: φ80 x 95 mm (Not including connector projections)
Sensor cable length	—	20 m
Maximum sensor cable length	—	100 m (Contact for detailed information.)
Weight	3.6 kg	2.2 kg
Setup	1 main unit, 1 sensor, 1 cleaning nozzle, and 1 mounting pipe (Two sensors may be connected. The second sensor is optional.)	

* For details on materials, see the footnote on page 10.
* Please ask our distributor or us about the (sensor) cable length.

Applications and examples



- Interface management of settling tank at an industrial wastewater treatment facility
- Interface management for a settling tank at a sewage treatment facility



■ Monitoring sedimentation conditions in a settling tank