



Measures suspended solid concentration of a liquid in a pipeline.



Product overview and features



Using the sensors (transmission/receiving) installed opposite each other in a liquid, the meter converts the received intensity to values for suspended solid concentrations.

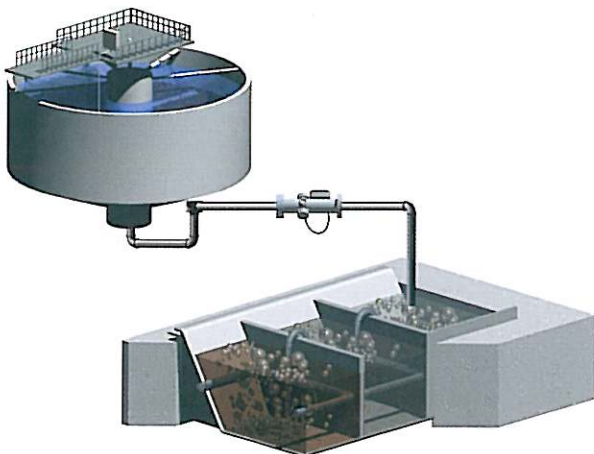
- **No drive unit**

Neither the main unit nor the sensor has a drive unit, helping to ensure reliable measurements over extended periods.

Applications and examples



- Sludge concentration management at sludge treatment line
- Measurement of suspended slurry concentrations



■ Measurement of concentration of sludge returned to aeration tank

Standard specification

Model No.	HLD300 (1 CH)	HLD300 (2 CH)
Number of channels	1 CH	2 CH
Frequency	1 MHz/3 MHz (manual selection)	
Measuring system	Ultrasonic attenuation system	
Object to be measured	Concentration of sludge, etc.	
Measuring range	0.0 to 40.0 dB	
Transducer mounting method	Clamp coupling (ferrule)	
Measuring pipe size	Standard: 80 A (50 A to 800 A)	
Measuring pipe withstand pressure	1.0 MPa	
Measuring concentration	0 to 20%	
Accuracy	±5%F.S.	
Data update cycle	1 sec.	
Power supply	Voltage	AC85 to 246 V
	Power consumption	30 VA
Display	LCD (with backlight)	
Output	Alarm output	Upper/lower limit relay contact output AC250V,DC30V 5A (Relay contact)
	4-20 mA current output (maximum load resistance)	16 bit RL (MAX) = 450 Ω
Interface	RS-485 (Max. transmission range: 1,200 m)	

	Main unit	Sensor
Operating temperature	-20 to 60°C	0 to 80°C
Storage temperature	-30 to 80°C	
Case material	Painted steel	Sensor case: SUS316
Box structure	IP54	IP67
Dimensions (W x D x H)	280 x 98 x 352 mm	φ29.5 x 26 mm
Sensor cable length	—	1 m
Maximum allowable sensor cable length	—	10 m
Distribution cable length	Not supplied	
Weight	5.5 kg	0.25 kg

Other

• The following measuring pipe sizes are available. Select the pipe appropriate for the operating environment.

- 50 A • 65 A • 80 A • 100 A • 125 A • 150 A • 200 A • 250 A
- 300 A • 350 A • 400 A • 500 A • 600 A • 700 A • 800 A