



HD1200

ULTRASONIC LEVEL METER

HD1200

Stable measurement with DSP

Display screen (3 display modes)

1. Level / Distance display:

Display for the remaining amount and the distance from the sensor

2. Trend display:

Display for the change of remaining

amount in the tank

3. Ultrasound A mode display: Display for the ultrasonic reflection

waveform







Features

- DSP gives the unique level detection algorithm and the stable measurement by the rejection of noise and the undesired reflection.
- By one main unit with 2 different sensors, 2 different measurement ranges at different locations can be measured.
- Log data can be stored on a micro SD™.
- Open channel flowmeter function is provided with the standard specifications.
- RS-485 (MODBUS protocol) is provided with the standard specifications for the communication with PLC (the sequencer).
- 4 lines of alarm output for the process control are provided to each channel.

Applications and examples

- Liquid / powder level management of the tank inside the machine
- Water level measurement for lakes, ponds and rivers
- · Open channel flow measurement

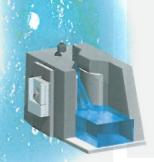


■Liquid level measurement



0 0 0

■Powder level measurement



■Application to the large weir

Sensor

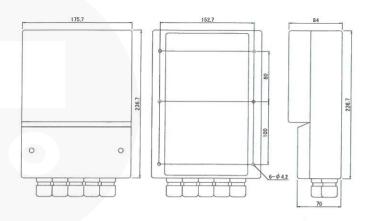
Model no.	TS40-5	TS40T-5	TS21-5	TS12-5
Measurement distance range	0.3 to 20m	0.3 to 15m	0.6 to 40m	1.2 to 60m
Sensor image		Chemical-resistant		-0

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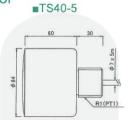
■Main Unit



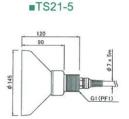
Model No.		HD1200		
Number of channels		2		
Frequency		10 to 60kHz transducer dependant		
Object to be measured		Liquid / powder		
Resolution	Measurement	1mm		
	Display	1mm		
Accuracy		±0.25%F.S.		
Data update cycle		Approx. 2sec transducer dependant		
Power source	Voltage	100 to 230V AC ±15%		
	Power consumption	10VA		
Display		LCD		
Output	Alarm output	4 lines for each channel		
		250V AC, 5A (Relay contact)		
	4-20mA current output	Resolution 1/4000		
		RL(Max)=600Ω		
Interface		RS-485 (Max transmission range:1,200m		
		RS-232C (Max transmission range:10m		
Communication		microSD™		
Operating ambient temp.		-20 to +70°C		
Material		ABS		
Structure		IP66 equivalent		
Dimensions(WxDxH)		175.7 x 84 x 236.7mm		
Weight		1.8kg		

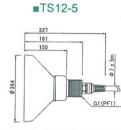
^{*} Open channel flowmeter function is provided to CH1 only.

■Sensor









Martin	Sensor					
Model No.	TS40-5	TS40T-5	TS21-5	TS12-5		
Frequency	40kHz	40kHz	21kHz	12kHz		
Measurement distance range (1/2 for powder)	0.3 to 20m	0.3 to 15m	0.6 to 40m	1.2 to 60m		
Sensor directivity angle (beam angle)	12°	22°	14°	14°		
Operationg ambient temperatures	-20 to +70°C	-20 to +70°C	-20 to +60°C	-20 to +60°C		
Material	Epoxy, PP	PVDF	PVC and others	PVC and others		
Structure	IP 66 equivalent	IP 66 equivalent	IP 53 equivalent	IP 53 equivalent		
Dimensions	φ84 x 90mm	φ98 x 87mm	φ145x 120mm	φ264x 181mm		
Sensor cord length	5m	5m	5m	5m		
Weight	500g	860g	290g	1kg		
Sensor attachment screw	R1	G1	G1	G1		

Any sensor cannot be used under the hydrofluoric atmosphere. * Please do not hesitate to consult us regarding the extension of sensor cable.

- * [micro SD™] is a trademark or a registered trademark of SD card Association.
 *All brand names and product names are registered trademarks of their respective companies.

*Contents of this leaflet are based on data on July 1, 2014.

*Specifications and design of the products may be changed for improvement without notice.

*Colors of actual products may differ from pictures in the leaflet cause of print.

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