

DAYTECH SONIC-1000 Series Datasheet

Intelligent Ultrasonic Level Transmitters



Features

- Accuracy of ± 0.3 F.S.
- Ranges from 0-5m to 0-10m
- Dead zone (blind zone) 0.4m to 0.5m
- Output types: 4-20mA, 1-5V, 1-10V, RS485
- 2 wire loop powered or 3 wire voltage
- Transducer Frequency: 20-350kHz
- Power Supply: 12-24VDC, <1.5W, For DC power supply, battery or solar supply.
- Built in simple digital LED display.
- Key pad programmable, with simple setup parameters.
- Automatic temperature compensation.
- Process Temp range from -10 to 50°C.
- Process connection: M60 OR 2" BSP (enquire for other options).
- IP65, ABS plastic Housing.
- Over current and overvoltage protection.
- CE Certification



Applications

- Liquid Level measurement
- Non-contact level or distance measurement
- Water or oil
- Tank level monitoring
- Pond or dam level monitoring
- Agricultural and Irrigation systems
- Water and Wastewater treatment

Description

The DAYTECH SONIC-1000 Series Intelligent Ultrasonic Level Transmitter is designed for low power, reliable, simple and economic performance. The ultrasonic sensors are suitable for liquid level measurement applications. The series can be used in pond, dam, well or tank level measurement for wastewater treatment, potable water treatment, pumping stations, irrigation, process and environmental applications with proven performance.

The low power requirements make the device an ideal choice for battery or solar powered applications. Standard features include simple LED display, automatic temperature compensation, over current and over voltage protection, signal error correction, level or distance measurement.

These ultrasonic level sensors have advanced features, however they are simple to setup.

Daytech Pty Ltd

Measurement and Control Technology for the Process and Environmental Industries.

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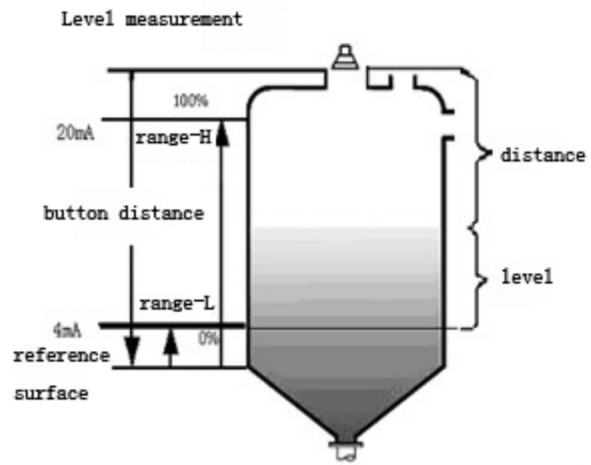
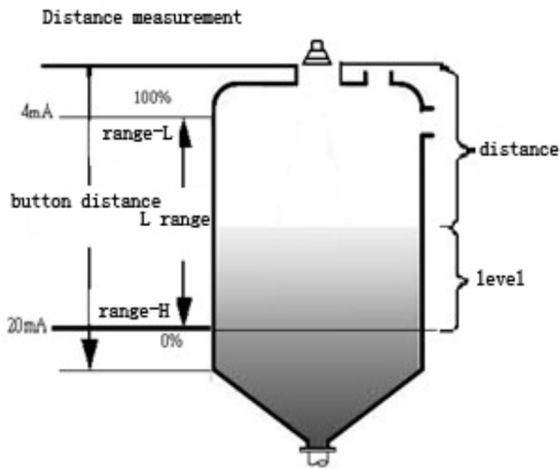
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Display and Set Up



- Simple set up by programming using push buttons.
- Tuning parameters are intuitive and easy to use, including analogue output scaling, distance or level measurement, signal error filter, pulse intensity.
- Digital display shows the Level or Distance.
- Display shows the status of the sonic signal.
- Can be password protected for locking the configuration.

Distance or Level Measurement Example



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Technical Specifications

Parameter	Value			Notes
Measurement Range	0-5m, 0-10m			
Operating Pressure	Process: ~1.5 Bar Display Unit: atmospheric pressure			
Blind Zone	0.4m to 0.5m			
Accuracy	±0.3%F.S			
Resolution	Electronic resolution of 1mm.			
Ambient Conditions	Temperature: -10°C~50°C Humidity: ≤90%RH			
Process Temperature	- 10°C~50°C			
IP Rating	IP65			
Media Compatibility	Medium compatible with ABS plastic, refer chemical compatibility chart.			
Wires	Two-wire	Three -wire		
Output Signal	4-20mA	1-5Vdc	1-10Vdc	
12VDC to 24VDC	12VDC to 24VDC	12VDC to 24VDC	12VDC to 24VDC	
Load resistance	600Ω			
Load power	<1.5W			
Electrical Connection	2 x M20 IP66 glands for cable connection			
Process Connection	M60 OR 2" BSP (enquire for other options)			
Compliance Certification	CE			
IP Rating	IP66			
Communication	HART or RS485 Communications (optional)			

Selection Guide

Please contact our sales and engineering team for application assistance.

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