LoRaWAN™

Benefits:

Remote water level detection

Can set threshold for prevention of water overflow

Protection

1. Spraying conformal coating to prolong service life
2. Mildew - proof
3. Moisture - proof
4. Anti - salt fog

ULTRASONIC WATER LEVEL SENSOR

The Intelligent Ultrasonic Level Meter is a non-contact, high-reliability, easy-to-install and maintain level measurement instrument, with a measuring range of 2 meters to 50 meters, selectable.
It is suitable for measuring liquids, slurries, and solids and finds wide applications in industries such as water treatment, municipal services, chemical, metallurgy, pharmaceuticals, environmental protection, and more.

Sensor implementations:

WATER TREATMENT

INDUSTRIAL WASTEWATER

INDUSTRIAL PROCESSES

IOT KREASI INDONESIA

ULTRASONIC WATER LEVEL SENSOR

The intelligent ultrasonic level sensor is a non contact, highly reliable, easy to install and maintain measuring tool. That is suitable for measuring liquids, slurries, and solids.

It features interference echo suppression to ensure that interfering echoes (e.g., from edges, welds, or installation-related interference echoes) are not mistakenly identified as real level echoes, ensuring accurate measurement results.The ultrasonic sensor (transducer) includes a built-in temperature sensor element, allowing compensation for changes in the speed of sound due to temperature variations during measurement.
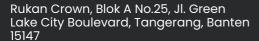
Technical Data

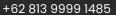| PARAMETERS	ULTRASONIC LEVEL SENSOR
Measuring range	2m, 3m, 5m, 8m, 10m, 12m, 15m, 20m (Customized ranges available upon request)
Measurement accuracy	±0.5% (Full range)
Resolution	3mm or 0.1% (Whichever is greater)
Display	LCD Display
Analog output	Two-wire system: 4mA to 20mA, 250Ω load Four-wire system: 4mA to 20mA, 2510Ω load
Relays	Optional 2 channels, AC 277V/1A or DC 30V/2A, programmable status
Power supply voltage	12V DC ±10% 24V DC ±10% 100V to 240V (AC)
Ambient temperature	–20ºC ... +60ºC
Operating temperature	Display instrument: –20ºC ... +60ºC Sensor: –20ºC ... +80ºC
Communication	Optional RS-485 (manufacturer's protocol)
Protection rating	Displat instrument: IP66 Sensor: IP68

PARAMETERS	ULTRASONIC WATER LEVEL
Sensor material	ABS, PVDF, PTPE
Sensor Installation	Threaded Flange/Standar Bracket
Sensor Cable	None
Product power consumption	**12V DC Power supply, Four-wire system:** • No relay output, power consumption approximately 0.96W • 1-channel relay output, power consumption approximately 1.2W • 2-channel relay output, power consumption approximately 1.5W **24V DC Power supply, Two-wire system:** No relay output, power consumption approximately 0.48W **24V DC Power supply, Four-wire system:** • No relay output, power consumption approximately 2.0W • 1-channel relay output, power consumption approximately 2.8W • 2-channel relay output, power consumption approximately 3.8W **220V AC Power supply, power consumption approximately 3.8W**