

# Ultrasonic Water Level Indicator

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## Applications

Ultrasonic water level indicators are contactless sensors for level measurements.

Ultrasonic level indicators are applied in the following areas:

- Hydrometry and hydrogeology
- Snow level measurements
- Surface water level for channels, aqueducts, sewers
- Industrial measurements

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## Technical features

Ultrasonic level sensors provide contactless measures of distance by sending a series of pulses and receiving echo response. Echo delay is used to compute distance between ultrasonic sensor and surface to be measured. Computed distance is then transmitted as an electrical output signal.

## Benefits

- High accuracy, excellent long-term stability
- Integrated protection against overvoltage and reversed polarity
- Protection class: IP 65
- Compact and robust housing structure
- Universal mounting bracket for walls, horizontal or vertical poles

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**Technical specifications**

Code	OIDRO006000	Code	OIDRO020000
			
<b>Description</b>	Ultrasonic level transmitter	<b>Description</b>	Ultrasonic level transmitter
<b>Type of measure</b>	distance	<b>Type of measure</b>	distance
<b>Type of sensor</b>	Ultrasonic sensor	<b>Type of sensor</b>	Ultrasonic sensor
<b>Level Range</b>	600...6.000 mm	<b>Level Range</b>	600...20.000 mm
<b>Beam angle</b>	8°	<b>Beam angle</b>	10°-15°
<b>Switching frequency</b>	1 Hz	<b>Switching frequency</b>	1 Hz
<b>Repeatability</b>	2 mm	<b>Repeatability</b>	+/-2 mm
<b>hysteresis</b>	1%	<b>hysteresis</b>	1%
<b>Resolution</b>	1 mm	<b>Resolution</b>	3 mm
<b>Operating temperature</b>	From -15°C to +70°C	<b>Operating temperature</b>	From -15°C to +70°C
<b>Current consumption without load</b>	< 60 mA	<b>Current consumption without load</b>	< 120 mA
<b>Size</b>	80x80x50 mm	<b>Size</b>	300x80x150 mm
<b>Degree of protection</b>	IP65	<b>Degree of protection</b>	IP65
<b>Material of housing</b>	Plastic	<b>Material of housing</b>	Plastic
<b>Connector</b>	Connector M12	<b>Connector</b>	Standard cable: 10 Meters

**Cable connection**

Code OCABLE0001 2x2x0.25