

## I-Level Submersible Level Probe – Explosion Proof

The I-Level from OmniSite is a next generation level transmitter for measuring water levels in sewage pumping stations, wells, and tanks. It's all stainless-steel design incorporates a highly clog resistant diaphragm protected by heavy-duty stainless steel weight. The explosion proof design is ideal for areas that have the potential for the build-up of explosive gases. The 0-20ft. factory calibrated range of the I-Level is optimized for use with the OmniSite Crystal Ball product in a lift station application, however it can be used in any application that accepts a 4-20mA output signal.

Works With:



Crystal Ball

## Order Information

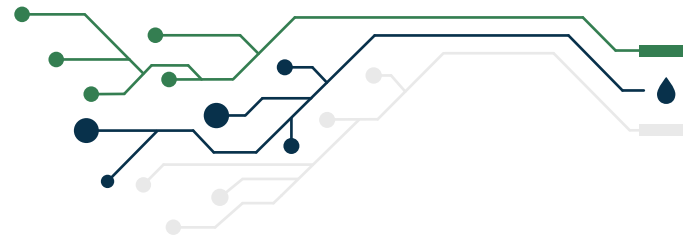
Part Number: S-MI-Ilevel

## Applications

- Submersible pump lift station level monitoring
- Wet wells
- Process sumps
- Water tanks and reservoirs
- Process sludge (including heavy sludge)
- Water and wastewater level monitoring

## Features

- Stainless steel-sensing diaphragm resists clogging
- Protective weight reduces risk of sensor damage
- Submersible to 1,100 feet (335 meters) WC
- Corrosion-resistant, all stainless steel construction
- Surge protection from lightning strikes and voltage spikes
- Extremely rugged housing
- Explosion proof for Class I, Div. I & II
- A range of 4-20 mA = 0-20 ft, H<sub>2</sub>O
- 60 ft Cable Length & 100 ft Cable Length available



## Specifications

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<b>Measurement Range:</b>	0-20 ft.
<b>Accuracy:</b>	0.25% F.S (including linearity, repeatability, and hysteresis)
<b>Long Term Stability:</b>	± 0.2 % F.S. per year
<b>Output Signal:</b>	4mA to 20 mA (two-wire type)
<b>Power Supply:</b>	12 VDC – 24 VDC ± 10%
<b>Response Time:</b>	10ms
<b>Allowed Overpressure:</b>	2.5 times full scale
<b>Compensated Temperature:</b>	from -10°C to +60°C
<b>Load Impedance:</b>	50K $\Omega$ min. for < 0.1% FSO attenuation
<b>Input Current:</b>	8mA nominal
<b>Insulation Resistance:</b>	10M $\Omega$ @ 50 VDC and +70 degrees F
<b>Connection:</b>	50 ft of 3-conductor #20g Hytrel jacketed Cable with breather tube utilizing Teflon hydrophobic filter
<b>Weight:</b>	5 lbs.
<b>Materials:</b>	All 316 stainless steel exterior body and diaphragm
<b>Operating Temperature:</b>	Temperature: 32 Degrees F – 150 Degrees F
<b>Thermal Drift:</b>	+/- 2.0% FS 50/100 Degrees F

## Pump Lift Station Application

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**Product Usage:** Simply set the weighted I-Level on the bottom of your sewage wet well or tank and connect the wires to the Crystal Ball Pump Controller as shown in the wiring diagram found on the next page. The I-Level will send its 4-20mA signal to the Crystal Ball to indicate well level. If the Crystal Ball is set up for pump control using a level probe or level probe with float backup, the Crystal Ball will then automatically cycle the pump(s) to maintain level set point. All the lift station data is transmitted to the OmniSite GuardDog phone app so you can keep track of well level and pump operation from anywhere, anytime.



# Wiring Diagram

**\*NOTE:** The I-Level must be connected to analog input #1 on the OmniSite Crystal Ball

