

LEVEL – WATCH & DESICCANT REPLACEMENT

SUBMERSIBLE LIQUID LEVEL SENSOR



Monitor water levels of streams, rivers, reservoirs, irrigation ditches, wells and tanks using the LEVEL-WATCH.

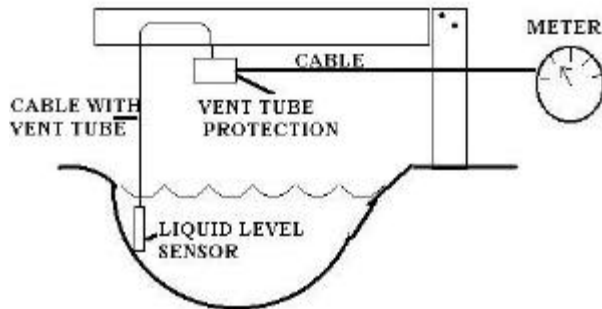
Simply install the LEVEL-WATCH in liquid below the lowest level of interest. Connect the electrical signal to a meter, telemetry device, or data logger and a power source; and the system is complete.

Features:

- High Stability
- Maintenance Free Operation
- Low Cost
- Compatibility with many Logging and Telemetry devices
- Low Power
- 316 Stainless Media Compatible

How LEVEL-WATCH Works

Liquid level above the sensor is measured indirectly by measuring the hydrostatic head of pressure. A vented tube is available for barometric pressure compensation.



DESICCANT REPLACEMENT

The Desiccant Replacement pressure transducer enhancement consists of an extremely flexible diaphragm that transfers atmospheric pressure to the vent tube with no measurable error. No air exchange is allowed between the vent tube and the atmosphere. The use of this product prevents damage to the pressure transducer, either from moisture or corrosive gases that may exist in areas such as water treatment plants. It also prevents error that is caused by liquid in the vent tube.



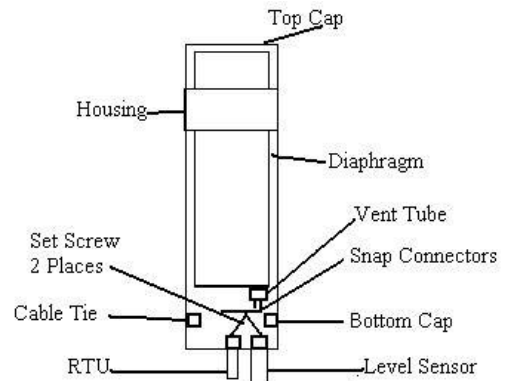
Specifications:

Size:.....10" Long x 2 1/2" Diameter

Weight:.....Under 1 lb.

Features:

- Low cost
- Maintenance-free operation
- Vent tube protection
- Compatibility with other manufacturers' sensors
- Internal space for splicing on additional cable



LEVEL-WATCH

Specifications:

Power Supply:	12 VDC \pm 10% @ 13mA (0-1 mA output)
Electrical Output:	4-20mA
Optional:	0-5 V
Overall Size:	1" x 9.5"
Shipping Weight:	2 lbs.
Turn On Time:	100 mS from power up
Media Compatibility:	Wetted material is 316 stainless
Linearity:	0.2% of span
Hysteresis:	0.2% of span
Temp. coef. Zero:	0.02% of span/ $^{\circ}$ C
Operating Temp.:	-40 $^{\circ}$ C to 70 $^{\circ}$ C
Long Term Stability:	0.5% of span/Yr.
Pressure Overload:	2 x rated pressure
Sensing Ranges:	4 feet, 11 feet, 30 feet, or 100 feet

Option:

Order vented cable as needed. Order "desiccant replacement" to help prevent damage to the LEVEL-WATCH, either from moisture or corrosive gases which may exist in areas such as water treatment plants.

Installation:

Mount the LEVEL-WATCH at a depth below the lowest level that is of interest to monitor. In still water, the sensor can be suspended by its cable to the depth desired. In turbulent water, a larger pipe should shield the sensor. In all cases the sensor should be located in the area of least turbulence. A vent tube is provided for barometric pressure compensation. The inlet of the vent tube should be protected. See "desiccant replacement" option. The sensor can be damaged by water freezing internally. Remove the sensor if freezing temperatures are anticipated. The warranty does not cover damage due to freezing.

Two Wire Hookup 4 – 20mA

