

### Standard Features:

- UL listed
- Flush clog-free sensor; 316L SST
- Enhanced internal surge and lightning protection
- ± 0.5% FSO Static Accuracy
- 40 ft. polyurethane cable, vented and shielded
- Double-sealed submersible cable exit;
- 200 lb. tensile strength



### TECHNICAL SPECIFICATIONS

#### PERFORMANCE

**Static Accuracy:** ± 0.5% FSO ( BFSL, RSS)  
(combined effects of non-linearity, hysteresis & repeatability)

**Repeatability:** ± 0.1% FSO

**Temperature Effects:** ± 1.5% FSO over comp range

(combined effects of Zero & FSO with reference at 70°F)

**Long Term Stability:** ± 0.25% FSO per year

#### MECHANICAL

**Pressure Range:** 0-10 psi, 0-15 psi

**Proof Pressure:** 2x Full Scale

**Burst pressure:** 5x Full Scale

**Materials:** 316L SST plus cable

**Pressure Port:** Flush mount per outline

**Electrical Connector:** 1/2"-NPT Male submersible conduit fitting with 40ft of polyurethane cable

**Dimensions:** Per outline

**Weight:** Nominal 20 oz

**Compensated Temp Range:** 20 to 170°F

**Operating Temp Range:** 0 to 200°F

#### ELECTRICAL

**Excitation:** 8 - 38 Vdc

**Output:** 1 - 5 Vdc or 4-20 mAcd

**Zero Balance:** ± 1% FSO

**FSO Setting:** ± 1% FSO

**Resolution:** Infinite ( ±.001% FSO)

**Response Time:** < 5mS

**Insulation Resistance:** 1000 MO @ 50 Vdc

**Reverse Polarity:** Protected

**Warm-Up:** < 10 mS

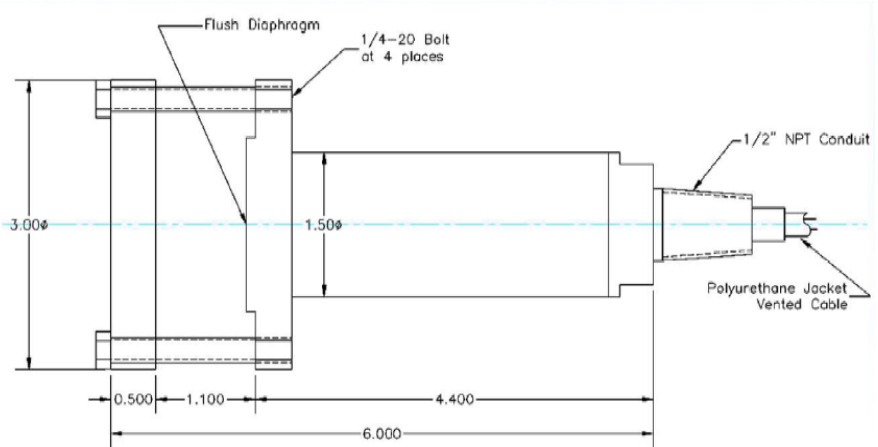
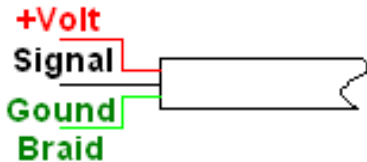
**Power Supply Effect:** ± .002% FSO per V input

**EMI/RFI:** Internal Filtering

**Lightning Protected:** MOV and dual gas discharge tube

**Short Circuit Protected:** Up to 40 Vdc

Pressure Psig	Level In. of Water	Level Ft. of water	Max. Pressure psig
0-10 psi	276.8	23	20 psi
0-15 psi	415.2	34.6	30 psi



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# **Quick Reference** WL430-xxx Waste Water Sensor Rev. E

## **Installation Procedures:**

The STEELCAGE assembly can be lowered and placed directly on the floor of the wet well/lift station. No stilling well is necessary. The cable should be routed into the logger or control panel for connection. The assembly does not need to be suspended; it can be placed directly on the wet well floor. The cable should be snug with minimal slack to prevent the assembly from “traveling” about in any turbulence in the wet well. Any excess cable can be coiled with a tie wrap and hung on the wall. This will work fine as long as there is no sharp bend in the cable that could cause it to kink.

DO NOT kink the cable, as this will cause blockage to the breather tube inside.

## **Electrical Installation:**

There are two wires, a vent tube and ground inside the cable.

### **TURN OFF POWER BEFORE CONNECTING THE WIRES!**

1. Connect the ground wire first (shield to earth ground to appropriate controller ground).
2. Then connect the red wire to a 13-30 VDC (24 VDC nominal) power supply. Note: An external power supply with a minimum current capability of 40 mA per transmitter, is required.
3. Connect the black lead to the 4-20mA input on the logger or other equipment that will be monitoring the sensor.



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