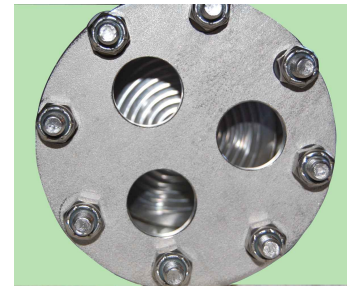


eva 2000 series Submersible Level Transmitter



- **1 Year Warranty,**
3x MOV Surge and Lightning Protection Built-In
- **Rugged Design –**
designed for the most demanding Lift Stations
- **100% Tested and Certified**
each unit supplied with full-range calibration certificate
- **Warranty Protected –**
backed by over 10 yrs. of In-Ground Utility Service
- **Dry Weight: approx. 7.5 lbs**



Clog-free 316L SST --- 3.5" Dia.

The **eva 2000 series Clog Free Submersible Level Transmitter** is based on 30 years of design and field service history and comes with JDA's exclusive 1-year warranty protection against lightning strikes.

The **eva 2000 Caged Transmitter** offers the highest reliability in level measurement for severe high solids environments such as **Lift Stations, Waste Water Sewage, Wet Wells, Storm Basins and Slurry Tanks.**

The Transmitter consists of an hermetically-sealed pressure sensing element encased in a 316 Stainless Steel Housing. The embedded electronics are capable of withstanding lightning spikes/strikes via triple redundant MOV (Metal Oxide Varistors) and meet RTCA/DO 160 E for direct lightning effects & Low level Surge Protection per rigorous MIL STD Testing.

Each **eva 2000 series Level Transmitter** is supplied with 40 ft. (std) of robust polyurethane shielded cable (capable of withstanding over 300 ft/lbs of Tensile Strength)

and utilizes JDA's built-in venting system, allowing for atmospheric pressure differential compensation. Tefzel cable and additional cable length optional.

The **eva 2000 series caged design** allows for trouble-free, real-time Level Measurement while providing full protection in high sewage / mud / sand and rag debris.

Each unit is calibrated and tested to exact pressure setting before shipping and includes certificate of conformance and calibration sheet.



NIST Traceability

- **Explosion Proof < FM Approved >**
 - **Rated I, II, III Div I Groups A, B, C, D, E & G for Hazardous Locations***
- JDA Transmitters* meet FM Approval & Intrinsically Safety requirements when used with an appropriate barrier**

Electrical:

Excitation: 8 - 38 Vdc*
Output: 4-20mA or 0-5 Vdc
Zero Balance: <+/- 1% FSO
FSO Setting: <+/- 1% FSO
Resolution: Infinite (+/- .001% FSO usable)
Response Time: <5 mS
Insulation Resistance: 1000 M Ohm@ 50 Vdc
Reverse Polarity: Protected
Warm Up: <10 mS
Power Supply Effect: < +/- .002% FSO per V input
EMI/RFI Filtering: Yes
Lightning & Surge Protection: MOV and Dual Gas Discharge Tube
Short Circuit Protection: Up to 40 Vdc

Mechanical:

Pressure Ranges: 1 PSI thru 100 PSI
Proof Pressure: 2.5X
Burst Pressure: 3.5X
Materials: 316L SST plus Cable

Pressure Port: Flush Mount Per Outline
Electrical Connection: Ω NPT Male Submersible Conduit w/ 40 FT of Polyurethane Cable (Provide up to 2500 FT on Spool)
Dimensions: Per outline below
Weight: 6 lbs

Environmental:

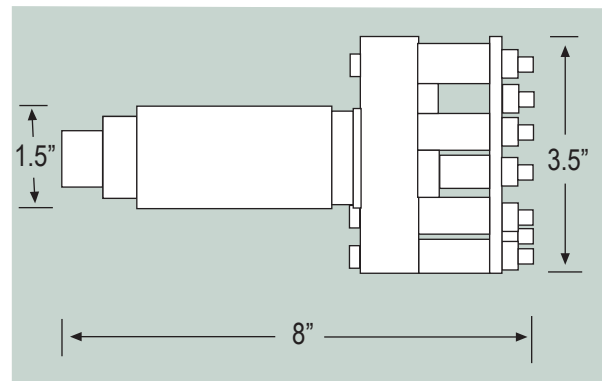
Compensated Temp Range: -20F to +185F
Operating Temp Range: -20F to +200F
Storage Temp Range: -20F to +250F

Performance:

Static Accuracy: <+/- 0.5% FSO (BFSL) (combined effects of non-linearity, hysteresis & repeatability)
Repeatability: <+/- 0.1% FSO
Temperature Effects: <+/- 1.5% FSO over Compensated Range (combined effects of zero & FSO with reference @ 70F)
Long Term Stability: <+/- 0.25% FSO per Year

Pressure psig	Level in. of water	Level ft. of water	Max. Pressure psig
0-3 psi	83	6.9	10 psi
0-5 psi	138.4	11.5	15 psi
0-10 psi	276.8	23	20 psi
0-15 psi	415.2	34.6	30 psi
0-20 psi	553.6	46.1	40 psi

27.68" H2O = 1 psi



JDA SYSTEMS

Enviro Products for Wastewater

2451 Cumberland Parkway • Suite 3178

Atlanta, GA 30339

Ph: 678-644-5520 • Fax: 770-319-1249

www.jda-transducers.com • www.jda-sys.com

