



# VL2000

## Wastewater Level Transmitter

### Data Sheet



### Features

- Open face, clog free
- 0.1%/0.25% accuracy
- 10" WC to 150 psi
- 316L stainless steel or titanium options
- 4-20mA, 2 wire
- CE Certified

### Typical Applications

- Pump/lift stations
- Water level
- Wastewater
- Oceanography
- Groundwater

Pressure Measuring Range: 0–100 psig, 0–50" WC

Temperature Range: -10° to +175°F (-20° to +80°C)

Accuracy:  $\pm 0.1\%$  FS (BSL) or  $\pm 0.25\%$  FS (BSL)



## VL2000 Performance Specification

The VL2000 Wastewater Level Transmitter is specifically designed for use in wastewater and pump/lift station applications. The ceramic sensing element provides a rugged flush open face design which avoids clogging or sludge build up from materials often encountered in wastewater. The stainless steel construction will satisfy most applications. Where chemical environments dictate an option of titanium is available. The standard polyurethane vented cable is molded to the transmitter providing the highest integrity waterproof assembly well proven in thousands of installations worldwide. FEP cable is available as an alternate for harsh environments.

A feature of the VL2000 is full scale ranges as low as 10" WC. The VL3000, VL4000 and MTM3000 offer similar performance with packaging suitable for deep well level measurements as well as sanitary flush designs for use in water and wastewater management, food and beverage, pulp and paper, and pharmaceutical applications.

Environmental	
Full Scale Ranges (Zero Based)	0-10, 20, 30, 50" WC 0-1, 5, 10, 15, 30, 50, 100 psig Other ranges and pressure units can be specified
Accuracy	±0.1% FS (BSL) or ±0.25% FS (BSL) Combined non-linearity, hysteresis & repeatability
Overpressure	For full scale ranges up to 20 psi - 10X Above 20 to 150 psi-4X
Operating Temperature Range	-10° to +175° F (-20° to +80° C)
Compensated Temperature Range	30° to 85° F (-2° to +30° C) - Standard 30° to 180° F (-2° to +80° C) - Optional*
Temperature Effects (Compensated)	High accuracy (±0.1) ±0.3% TEB for ranges 5 psi and above ±1.0% Standard accuracy (±0.2%) Standard accuracy (±0.25%) ±1.5% TEB for ranges 5 psi and above ±2.0% TEB for ranges below 5 psi *±2.0% TEB for all ranges with extended temperature option
Electrical	2-wire, 4-20 mA, 10-35 VDC power
Intrinsically Safe Approvals	Available with FM Intrinsically Safe Certification for use in Class I,II, and III, Division 1, Groups A,B,C,D,E,F, & G hazardous locations. Note: FMC approval is included for Canadian requirements
Cable	Polyurethane molded, vented with Kevlar, 4 conductors Contact factory for FEP cable
Housing	Housing 316L stainless steel or titanium with 5-year corrosion warranty
Weight (excluding cable)	7.6 oz. (excluding cable)

\*STS Sensors adopts a continuous development program which sometimes necessitates specification changes without notice



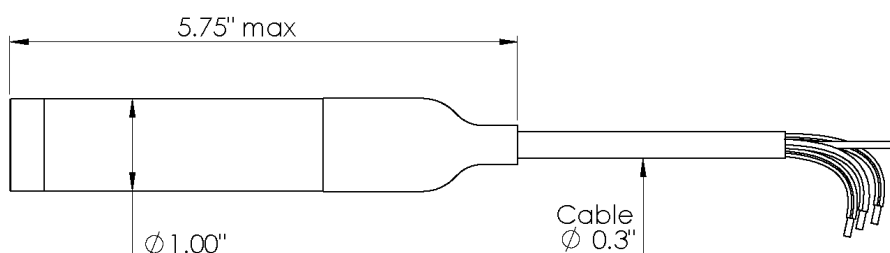
## VL2000 Ordering Options

### Example: VL2113

This example include an open face model construction, stainless steel housing material, polyurethane molded cable, and a 4-20mA electrical configuration.

VL2000		2	1	1	3
Model Construction	Open Face, Ceramic 1"	2			
Housing Material	316L stainless steel		1		
	Titanium (5-year warranty)		2		
Electrical Connection	Polyurethane molded cable			1	
*Cable length must be specified at the time of ordering.	FEP			2	
Electrical Configuration	4-20 mA				3

## Mechanical Details



## Electrical Details

Configuration	+Ve	0V Supply	Ground
4-20mA	Red	Black	Green



## Related Products

STS offers a range of accessories and variants for depth and level transmitters.

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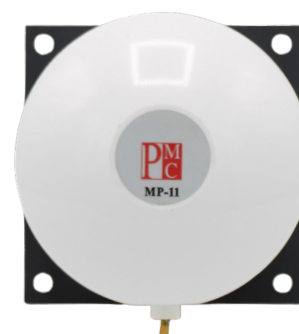
### TE-10 Dri-Box Termination Enclosure

The TE-10 provides a polycarbonate NEMA 4X rated termination enclosure for vented pressure transmitters. Separate gland nuts are incorporated for the electrical input and output and the breather vent provides barometric reference without ingress of water. A field replaceable desiccant module features a moisture status indicator visible through the clear cover.



### MP-11 Moisture Protection Reference Volume

The MP-11 Moisture Protection Reference Volume reduces on-site maintenance. For vented gauge transmitters, the MP-11 provides a total isolation to the atmosphere by using a custom bladder while maintaining the high performance of the transmitter. This changes volume with barometric pressure.



### SW2100 Sink Weight

The SW2100 anchors the VL2000 installed on the bottom of wastewater or sewage lift tanks.

