

# Model 517



#### **FEATURES**

- Submersible
- Less than 7/8" diameter
- Corrosion resistant construction
- Ranges from 30" WC to 1,200 ft WC/500 PSI (34 bar)
- Intrinsically Safe design available
- All stainless steel construction

#### TYPICAL APPLICATIONS

- Methane gas wells
- Down hole water wells
- Inground and underground tanks
- Water and sewage treatment plants
- Reservoirs / Dams
- Marine / Shipboard
- Chemical waste ponds

## HYDROSTATIC HEAD PRESSURE TO ACCURATELY MEASURE LEVEL

If you choose to measure level through hydrostatic head pressure, then you can't do better than the Model 517 from Viatran. The Model 517 promises an accuracy to 0.1%.

And it's submersible. Meaning you can throw it in the tank and not worry about some of the things that Process Engineers have to worry about - like the fog rolling in. The Model 517 will send you a reliable 4 to 20 mA output.

### WHAT DOES RUGGED REALLY MEAN?

The Model 517 has been engineered to survive in hostile media. We're confident you can depend on the 517. Internal circuitry provides lightning protection, while a 4 to 20 mA output signal minimizes potential outside interference and signal degradation. All of this is critical if the signal needs to travel over long cable lengths (as in groundwater studies).

#### **RUGGED FEATURES**

The unique Viatran cable seal ensures watertight integrity up to 500 PSI (34 bar). Other potential leak paths are avoided by Viatran's all-welded sensor design. This design eliminates the 0-ring seal.

### OPTIONAL 1/4" NPT PRESSURE PORT

A removable end cap comes standard on the Model 517. However, if weight is needed, heavier end caps are available. The optional 1/4" NPT pressure port is ideal for checking unit calibration against a known pressure source.

For more information, contact Viatran.





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PERFORMANCE		Full Scale Pressure Range (FSPR)0-3, 5, 10, 15, 30, 50, 100, 200, 300, 500 PSI0-7, 12, 23, 35, 69, 115, 230, 462, 693, 1154 feet of water column Linearity, Hysteresis & Repeatability≤±0.1% FS0 typical (±0.25% FS0 max)		
Accu	racy Combined			
		Hysteresis & Repeatability≤±0.05% FS0		
		Full Scale Output (FSO)	16 mA	
		ResolutionInfinite		
		Zero Balance		
		Long Term Stability	≤±0.20% FS0 per year	
		Response time		
		Temperature Effect on Zero	≤±1.0% 100°F (37°C)	
		Temperature Effect on Span		
		Compensated Temperature Range.	32°F to 180°F (0°C to 82°C)	
			40°F to 185°F (-40°C to 85°C)	
		Storage Temperature Range	40°F to 250°F (-40°C to 121°C)	
ELECTRICAL		Supply Voltage	9 to 30 Vdc	
		Power Supply Regulation		
		Output Signal	4 to 20 mA	
		Span		
		Circuit Protection	Reverse polarity protected. Over-voltage protected to 1000 V,	
			<1mSec duration	
		Electrical Connection		
		Red	+Power/Signal	
		Black	Power/Signal	
		Bare		
MECHANICAL		Proceura Connection		
WEOTAMOAL		Proof Pressure		
		Burst Pressure		
		Diameter	•	
		Weight		
		Cable Weight		
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MATERIALS OF CONSTRUCTION		Housing		
		Pressure Connection Sensor	316L stainless steel	
		Cable Options	Polyurethane, Tefzel	
		Identification		
			Internal Kevlar Cord- 300 Lbs Pull	
		Cable Strength		



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### **CERTIFICATIONS (Consult Factory for Available Options)**

Intrinsic Safety Class I, II, III, Div. 1, Groups A thru G and AEx ia IIC T4, Indoor and Outdoor NEMA 4X Hazardous Locations

CSA Intrinsic Safety Class I, Div.1, Ex ia IIC T4 Type 4 Enclosure

Note: Application of some available options may affect standard performance. Consult your Viatran Representative for details.

ACCESSORIES Breather tube filer

Panel mount digital display

Pressure test fitting (1/4" NPT (F) screws into end cap threads)

Desiccant tube kit



