



LEVEL TRANSMITTER

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.







PERFORMANCE Accuracy Combined		0-3, 5, 10, 15, 30, 50, 100, 200, 300, 500 PSI
		0-7, 12, 23, 35, 69, 115, 230, 462, 693, 1154 feet of water column
	Linearity, Hysteresis & Repeatability≤±0.1% FS0 typical (±0.25% FS0 max)	
	Hysteresis & Repeatability	
	Full Scale Output (FSO)	16 mA
	Resolution	Infinite
	Zero Balance	4 mA ±0.25% FS0
	Long Term Stability	≤±0.20% FS0 per year
	Response time	
	Temperature Effect on Zero	≤±1.0% 100°F (37°C)
	Temperature Effect on Span	≤±1.0% 100°F (37°C)
	Compensated Temperature Range	32°F to 180°F (0°C to 82°C)
	Operating Temperature	40°F to 185°F (-40°C to 85°C)
		40°F to 250°F (-40°C to 121°C)
ELECTRICAL	Supply Voltage	9 to 30 Vdc
	Power Supply Regulation	≤±0.0001% per Volt
	Output Signal	4 to 20 mA
	Span	
		Reverse polarity protected. Over-voltage protected to 1000 V,
		<1mSec duration
	Electrical Connection	
	Red	+Power/Signal
	Black	
	Bare	· · · · · · · · · · · · · · · · · · ·
MECHANICAL	Draggura Connection	
	Proof Pressure	· ·
	Burst Pressure	· · · · · · · · · · · · · · · · · · ·
	Diameter	
	Weight	
	Cable Weight	30 lbs per 1000 feet
MATERIALS OF CONSTRUCTION	Housing	
	Pressure Connection Sensor	316L stainless steel
	Cable Options	



CERTIFICATIONS (Consult Factory for Available Options)

FM 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

OPTIONS Codes DH......Special range

NH......Customer specified identification

NRAlternate protection baffle plate with weight hook (max weight 2 lbs)

TGCSA and FM Intrinsically Safe design

DESICCANT TUBE

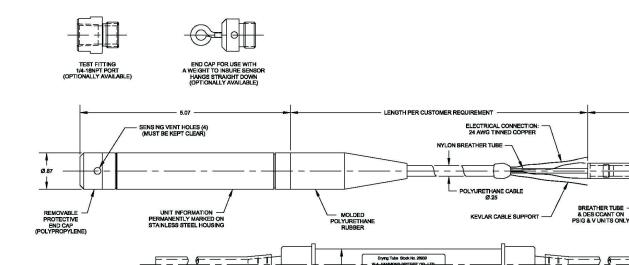
Note: Application of some available options may affect standard performance. Consult your Viatran Representative for details.

ACCESSORIES Breather tube filer

Panel mount digital display

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

Desiccant tube kit





ALL DIMENSIONS ARE NOMINAL, IN INCHES AND FOR REFERENCE PURPOSES ONLY

PVC TUBING

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