



## A submersible level transmitter in a small package!

- The Viatran Model 59S is a submersible transmitter specifically designed to meet the challenge of liquid measurement in areas with confined access.
- Only 0.75 inch diameter x 4.4 inches tall
- Available in ranges from 0-40 Inches W.C. to 0-835 Feet W.C.
- Polyurethane (PUR) cable is the most popular, Polyvinyl Chloride (PVC) & Fluorinated Ethylene-Propylene (FEP) cables are also offered
- Liquid Level & Depth, Well Monitoring, Lift Stations, Shipboard, In-ground / Above Ground Tanks, and Inventory Tank Gauging.



Performance	Pressure Ranges From							
	Accuracy $\leq$ +/-0.35% FSO for ranges $\geq$ 15 Ft. W.C.[Combined Non-Linearity (BFSL), Hysteresis $\leq$ +/- 0.50% FSO for ranges < 15 Ft. W.C.& Repeatability] $\leq$ +/- 0.25% FSO for ranges $\geq$ 15 Ft. W.C. (Optional)							
	Compensated Temperature Range							
	Operating Temperature Range14° to 158° F (-10 to 70° C) Note: Medium must not freeze near sensor							
	Storage Temperature Range13° to 158° F (-25 to 70° C) Long Term Stability (%FSO)≤ +/- 0.1% FSO / year at reference conditions							
	Thermal Effect on Zero	≤ +/- 2% FSO per 100° F for ≥ 13.4 Ft. W.C., otherwise ≤ +/- 0.8% FSO per 100°						
	Thermal Effect on Span	$\leq$ +/- 2% FSO per 100° F for $\geq$ 13.4 Ft. W.C., otherwise $\leq$ +/- 0.8% FSO per 100°						
Electrical		12-36 Vdc						
		Withstand 1000 volt spike per EN 61000						
Mechanical	Pressure Connection Ingress Protection Overpressure Limit Burst Pressure Weight	IP 68 2.4x Minimum 5x Minimum						
Materials of Construction	Housing Sensor Diaphragm O-ring Seals Protective Cap	316L stainless steel FKM or EPDM (customer specified)						



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low to Orde	r MODEL	UNITS OF	PRESSURE	SEALS	CABLE	ACCURACY	CABLE LENGTH	OPTIONS
	59S	PRESSURE	RANGE		FORMAT			
	000	(1 digit)	(4 digits)	(2 digits)	(2 digits)	(1 digit)	(3 digits)	(2 digits)
Units of	Pressure							
F I	Feet of Water Colur Inches of Water Co							
Pressure	e Range							
W.C. can	ge from 0-40 Inches be specified at no ac must be in Inches W(	dional cost.	35 Feet					
	factory for range code advise if specific grav							
Ex	ample of Four Digit Cod	<u>es:</u>						
	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1 Insert Range Co   1 Insert Range Co   1 Insert Range Co   2 Insert Range Co   2 Insert Range Co   2 Insert Range Co	de 5000 de 1001 de 1501 de 5001 de 1002 de 2502					
Seals								
GK GD	Fluoroelastomer (Fl Ethylene Propylene							
Cable Fo	ormat							
PC TL PA	Polyvinyl Chloride ( Polyurethane Cable Fluorinated Ethylen	e (PUR) *Stocked ir	n select lengths fo	r fast delivery				
Accurac	у							
5 3 2	Ranges < 15 Ft. = - Ranges ≥ 15 Ft. = - Ranges ≥ 15 Ft. = -	+/- 0.35% FSO (BF	SL)					
Cable Le	ength	ι. Ι	, ,					
XXX	Listed in Whole Met	ters Only (must be	3 digits - ex. 012	= 12 Meters)				
Options								
EA PW	Special Calibration Calibrate item with							

PW Calibrate item with meter/display

Information is accurate to the best of Viatran's knowledge. We reserve the right to change specifications at any time.

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Sensori & trasduttori

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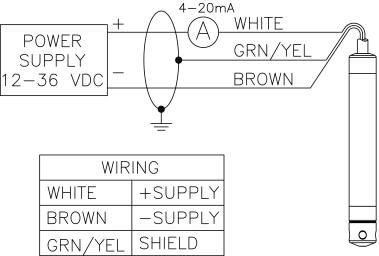


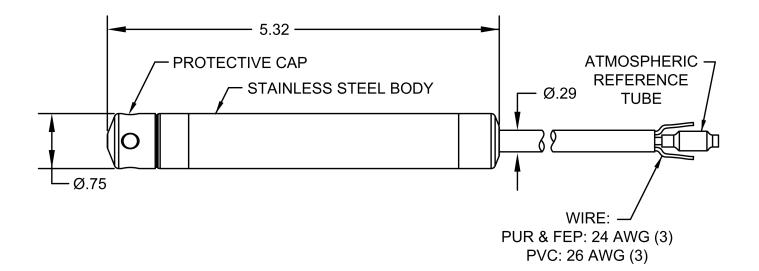
## **Connection Diagrams & Wiring**

The standard wiring of your Viatran 59S level transmitter is outlined below. The wiring information is also marked on your unit.

The 59S level transmitter can be powered by a DC power supply ranging from 12 to 36 volts. See installation manual for more details.







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