

Model 59P

PVC Submersible Level Transmitter



A submersible level transmitter for aggressive media!

- A variety of sealing materials are available to suit your particular application.
- The Viatran Model 59P is a submersible transmitter specifically designed to meet the challenging demands of aggressive liquid measurement. Its less costly PVC body and Ceramic sensor can resist very harsh fluids while maintaining an economical price.
- Available in ranges from 0-13 Feet W.C. to 0-335 Feet W.C. or equivalent in Meters or PSI
- Polyurethane (PUR) cable is the most popular, Polyvinyl Chloride (PVC) & Fluorinated Ethylene-Propylene (FEP) cables are also offered.
- Liquid Level & Depth, Water & Wastewater, Lift Stations, Reservoirs & Dams, Rivers, Holding Ponds, Wells, In-ground/Above Ground Tanks, and Inventory Tank Gauging.



Performance	Pressure Ranges From	0-13 Feet W.C. to 0-335 Feet W.C. or equivalent in Meters or PSI.
	Accuracy	≤ +/-0.5% FSO
	[Combined Non-Linearity (BFSL), Hysteresis & Repeatability]	
	Compensated Temperature Range	-13° to 158° F (-25 to 70° C)
	Operating Temperature Range	32° to 122° F (0 to 50° C) Note: Medium must not freeze near sensor
	Storage Temperature Range	14° to 122° F (-10 to 50° C)
	Long Term Stability (%FSO)	≤ +/- 0.1% FSO / year at reference conditions
	Thermal Effect on Zero	≤ +/- 0.12% FSO per 100° F
	Thermal Effect on Span	≤ +/- 0.12% FSO per 100° F
Electrical	Output Signal	4-20 mA
	Supply Voltage	8-32 Vdc
	Power Supply Regulation	< +/- .005% FSO per volt
	Circuit Protection	Reverse polarity protected, CE marked
	RFI/EMI	CE EMC compliant as per IEC EN 61326
	Voltage Spike Protection	Withstand 1000 volt spike per EN 61000
	Response Time	< 10 mSec
Mechanical	Pressure Connection	Protective POM Cap (Removable)
	Ingress Protection	IP 68
	Overpressure Limit	1.6x Minimum
	Weight	0.5 lbs. (without cable)
Materials of Construction	Housing	PVC
	Sensor Diaphragm	Ceramic Al ₂ O ₃ 96%
	Cable	PUR, PVC, or FEP (customer must specify)
	Seals	FKM or EPDM (customer must specify)



Model 59P Detachable Level Transmitter

How to Order

MODEL 59P	UNITS OF PRESSURE (1 digit)	PRESSURE RANGE (4 digits)	SEALS (2 digits)	CABLE FORMAT (2 digits)	CABLE LENGTH (3 digits)	OPTIONS (2 digits)
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Units of Pressure

F	Feet of Water Column
I	Inches of Water Column
M	Meters of Water Column
P	PSI (Whole numbers only)

Pressure Range

Any Range from 0-13 Feet W.C. up to 0-335 Feet W.C. or equivalent can be specified at no additional cost.

*Consult factory for range code

**Please advise if specific gravity is other than 1

Example of Four Digit Codes:

Range	Four Digit Codes for Range
5	= 5 0 0 0 Insert Range Code 5000
10	= 1 0 0 1 Insert Range Code 1001
15	= 1 5 0 1 Insert Range Code 1501
50	= 5 0 0 1 Insert Range Code 5001
100	= 1 0 0 2 Insert Range Code 1002
250	= 2 5 0 2 Insert Range Code 2502
835	= 8 3 5 2 Insert Range Code 8352

Seals

GK	Fluoroelastomer (FKM)
GD	Ethylene Propylene (EPDM)

Cable Format

PC	Polyvinyl Chloride (PVC)
TL	Polyurethane Cable (PUR) *Stocked in select lengths for fast delivery
PA	Fluorinated Ethylene-Propylene (FEP)

Cable Length

XXX Listed in Whole Meters Only (must be 3 digits - ex. 012 = 12 Meters)

Options

EA	Special Calibration Run
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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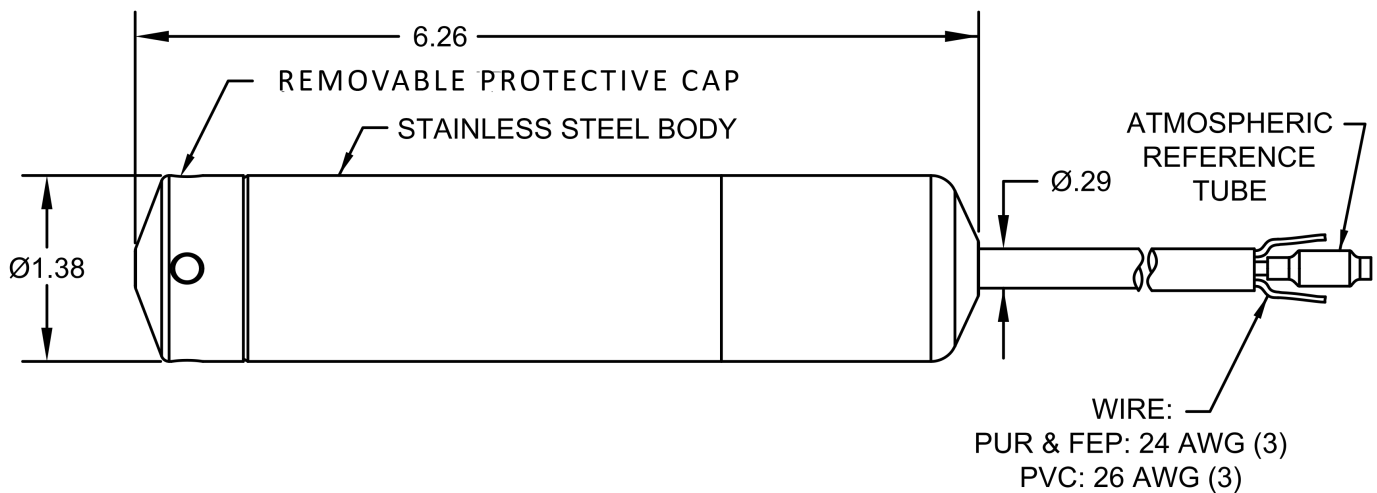
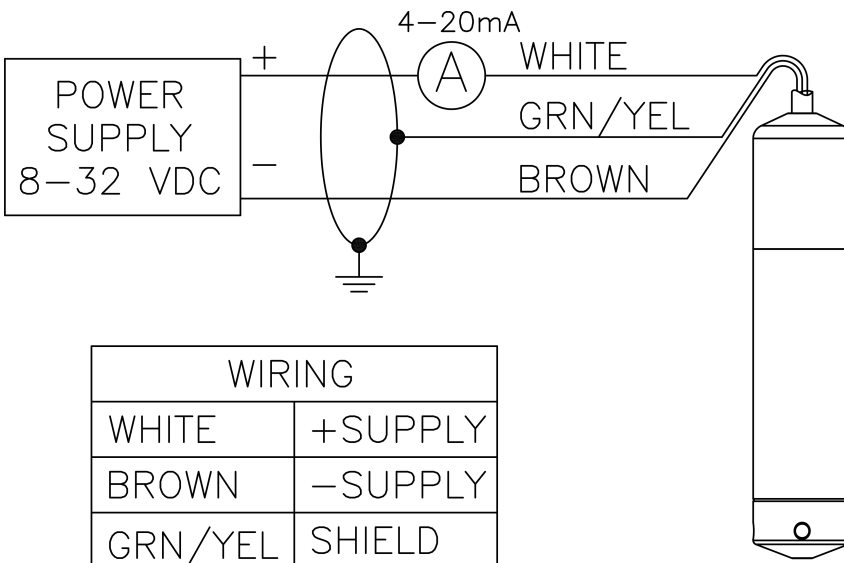
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Connection Diagrams & Wiring

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

The 59P level transmitter can be powered by a DC power supply ranging from 8 to 32 volts. See installation manual for more details.



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