

# Model 59P

## PP-HT 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 Polypropylene-High Temperature (PP-HT) 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 .....	PP-HT (Polypropylene-High Temperature)
Sensor Diaphragm .....	Ceramic Al <sub>2</sub> O <sub>3</sub> 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 <b>59P</b>	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

# Model 59P Detachable Level Transmitter

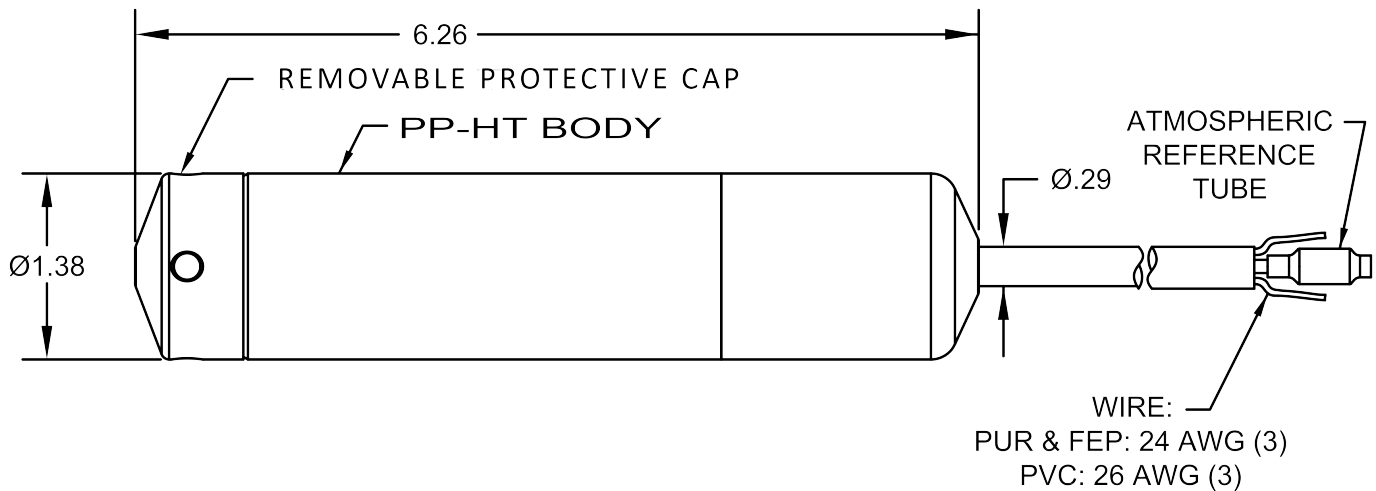
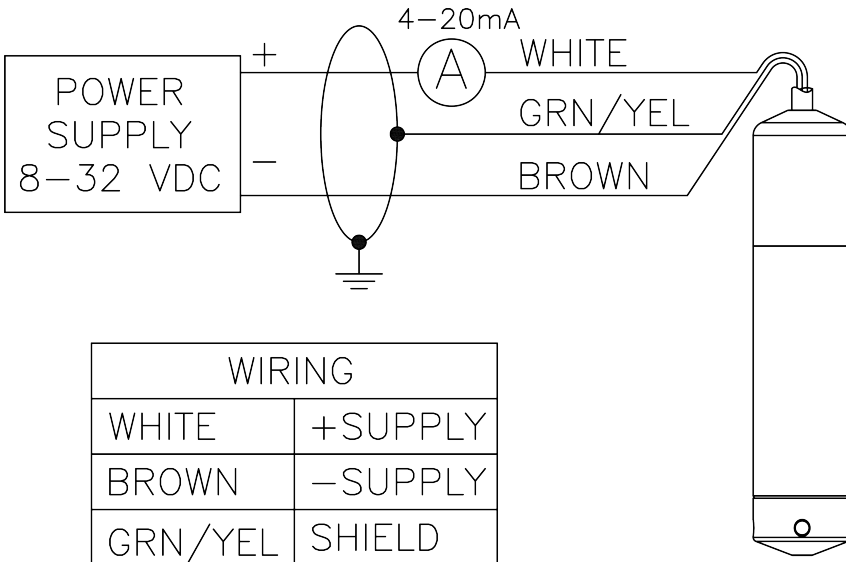
## Connection Diagrams & Wiring

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.



Information is accurate to the best of Viatran's knowledge. We reserve the right to change specifications at any time. Please contact Viatran for specific order inquiries.