

# Model 59K

## PP-HT Slim Submersible Level Transmitter



### A slim submersible level transmitter for aggressive media!

- ◆ The Viatran Model 59K is a submersible transmitter specifically designed to meet the challenging demands of aggressive liquid measurement. Its durable PP-HT body and Ceramic sensor can resist very harsh fluids while maintaining an economical price.
- ◆ Available in ranges from 0-20 Feet W.C. to 0-670 Feet W.C.
- ◆ Polyurethane (PUR) cable is the most popular, Polyvinyl Chloride (PVC) & Fluorinated Ethylene-Propylene (FEP) cables are also offered.
- ◆ Slim Design (.830 Diameter Body) for small diameter pipes, boreholes and confined spaces.
- ◆ Liquid Level & Depth, Water & Wastewater, Lift Stations, Reservoirs & Dams, Rivers, Small Bore Wells, In-ground/Above Ground Tanks, and Inventory Tank Gauging.



#### Performance

Pressure Ranges From .....	0-20 Feet W.C. to 0-670 Feet W.C.
Accuracy .....	≤ +/-0.5% FSO [Combined Non-Linearity (BFSL), Hysteresis & Repeatability]
Compensated Temperature Range .....	-13° to 158° F (-25 to 70° C)
Operating Temperature Range .....	14° to 122° F (-10 to 50° C) Note: Medium must not freeze near sensor
Storage Temperature Range .....	-13° to 122° F (-25 to 50° C)
Thermal Effect on Zero .....	≤ +/- 0.23% FSO per 100° F
Thermal Effect on Span .....	≤ +/- 0.23% FSO per 100° F

#### Electrical

Output Signal .....	4-20 mA
Supply Voltage .....	12-32 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 .....	Removable Protective POM Cap
Ingress Protection .....	IP 68
Overpressure Limit .....	1.6x Minimum
Weight .....	0.25 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
Removable Protective Cap.....	POM (Polyoxymethylene)

#### Viatran

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# Model 59K Submersible Level Transmitter

## How to Order

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

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

### Pressure Range

Any Range from 0-20 Feet W.C. up to 0-670 Feet W.C. 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

### Cable Format

PC	Polyvinyl Chloride (PVC)
TL	Polyurethane Cable (PUR)
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. Please contact Viatran for specific order inquiries.



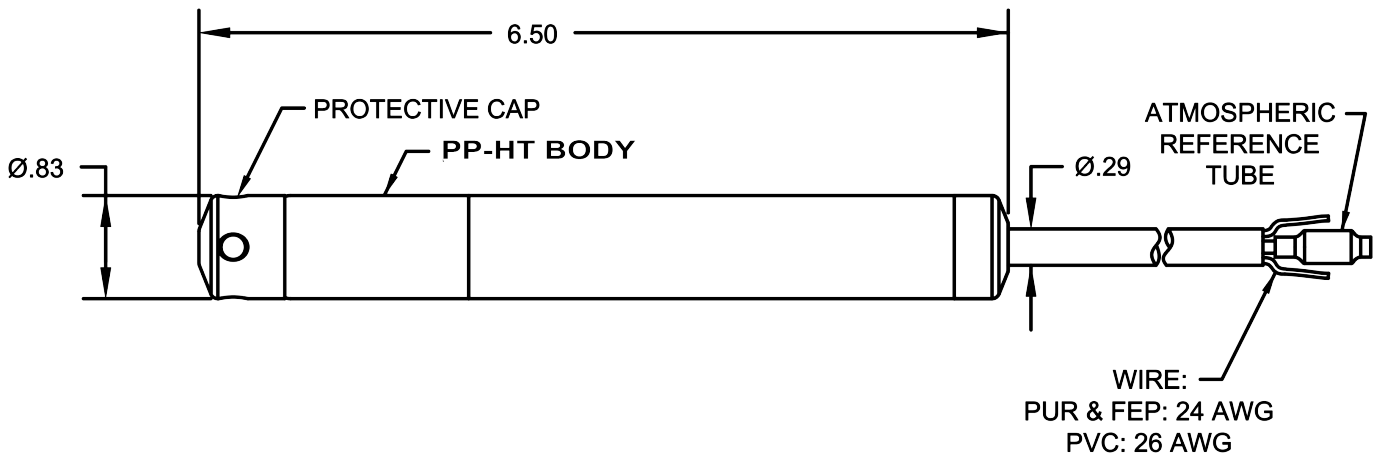
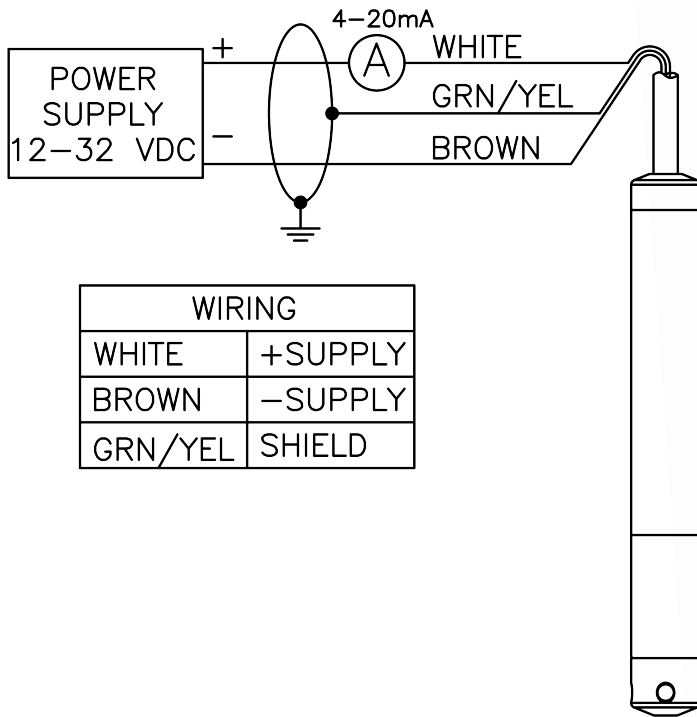
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## Connection Diagrams & Wiring

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

The 59K level transmitter can be powered by a DC power supply ranging from 12 to 32 volts.

See installation manual for more details.



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