Model 59T



Submersible Level & Temperature Transmitter

A submersible level transmitter that provides media temperature too!

- The Model 59T allows for both level and media temperature measurements at the same time.
- The Viatran Model 59T is a submersible transmitter specifically designed to meet the challenging demands of liquid measurement. Additionally the temperature feature provides a second 4-20 mA analog output representing one of three discrete temperature range choices.
- Available in ranges from 0-40 inches W.C. to 0-835 feet W.C. or equivalent in Meters or PSI
- Polyurethane (PUR) cable is standard while Polyvinyl Chloride (PVC)
 & Fluorinated Ethylene-Propylene (FEP) cables are also offered.
- Liquid Level & Depth, Water & Grey Water, Lift Stations, Reservoirs & Dams, Rivers, Holding Ponds, Wells, In-ground/Above Ground Tanks, and Irrigation Systems.



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Performance	Pressure Ranges From0-40 Inches Water Column up to 0-835 Feet Water Column or equivalent in Meters or PSI.
	Pressure Accuracy \leq +/-0.35% FSO for ranges \geq 15 Ft. W.C. [Combined Non-Linearity (BFSL), Hysteresis \leq +/- 0.50% FSO for ranges \leq 15 Ft. W.C. & Repeatability] \leq +/- 0.25% FSO Optional for ranges \geq 15 Ft. W.C.
	Compensated Temperature Range32° to 158° F (0 to 70° C)
	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≤ +/- 0.8% FSO per 100° F
	Thermal Effect on Span≤ +/- 0.8% FSO per 100° F Temperature Accuracy≤ +/- 1.8° F (1°C)
Electrical	Output Signal
	RFI/EMICE EMC compliant as per IEC EN 61326 Voltage Spike ProtectionWithstand 1000 volt spike per EN 61000 Response Time<10mSec
Mechanical	Pressure ConnectionProtective POM cap Ingress ProtectionIP 68
	Overpressure Limit
Materials of Construction	Housing316L stainless steel Sensor Diaphragm316L stainless steel O-ring SealsFKM Protective CapPOM (Polyoxymethylene)

Viatran

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How to Order

MODEL 59 T UNITS OF PRESSURE PRESSURE (1 digit) PRESSURE (4 digits)

TEMPERATURE RANGE (1 digit) ACCURACY (1 digit)

CABLE FORMAT (2 digits) CABLE LENGTH
(3 digits)

OPTIONS (2 digits)

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 0-40 Inches Water Column up to 0-835 Feet Water Column, 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:

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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		

Temperature Range

L = 32° to 86° F M = 32° to 122° F H = 32° to 158° F

Accuracy

- 2 Ranges \geq 15 Ft. = +/- 0.25% FSO (BFSL) OPTIONAL
- 3 Ranges < 15 Ft. = +/- 0.50% FSO (BFSL)
- 5 Ranges ≥ 15 Ft. = +/- 0.35% FSO (BFSL)

Cable Format

PC Polyvinyl Chloride (PVC)
TL Polyvirethane Cable (PUI)

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





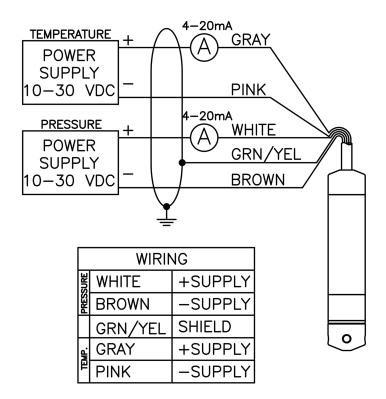


Connection Diagrams & Wiring

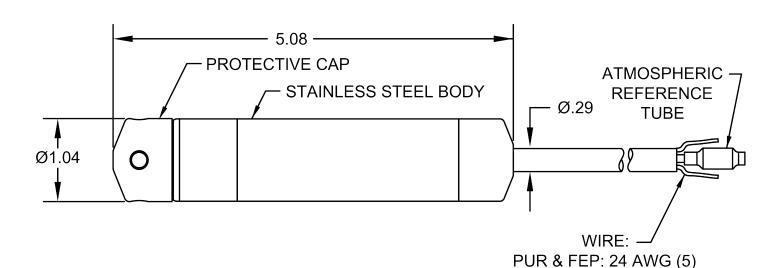
The standard wiring of your Viatran level & temperature transmitter is outlined below. The wiring information is also marked on your unit.

The 59T level & temperature transmitter can be powered by DC power supplies ranging from 10 to 30 volts. See installation manual for more details.





PVC: 26 AWG (5)



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.



