

Model 59G

Submersible Level Transmitter



A multipurpose submersible level transmitter

- The Viatran Model 59G is a submersible transmitter specifically designed for continuous level measurement in water and clean or waste fluids.
- 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.



Performance

Pressure Ranges From	0-40 Inches Water Column up to 0-835 Feet Water Column or equivalent in Meters or PSI.
Accuracy	≤ +/- 0.35% FSO for ranges ≥ 15 Ft. W.C.
[Combined Non-Linearity (BFSL), Hysteresis & Repeatability]	≤ +/- 0.50% FSO for ranges < 15 Ft. W.C. ≤ +/- 0.10% FSO Optional
Compensated Temperature Range	32° to 158° F (0 to 70° C)
Operating Temperature Range	14° to 158° F (-10 to 70° C) Note: Medium must not freeze near sensor
Storage Temperature Range	-13° 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

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	≤ 10mSec

Mechanical

Pressure Connection	Protective POM cap
Ingress Protection	IP 68
Overpressure Limit	4x Minimum (> 535 Ft. range = 3.2x)
Burst Pressure	6x Minimum (> 535 Ft. range = 4.8x)
Weight	0.5 lbs. (without cable)

Materials of Construction

Housing	316L stainless steel
Sensor Diaphragm	316L stainless steel
O-ring Seals	FKM
Protective Cap	POM (Polyoxymethylene)

Viatran

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How to Order

MODEL
59G

UNITS OF
PRESSURE
(1 digit)

PRESSURE
RANGE
(4 digits)

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:

Range				Four Digit Codes for Range
5	=	5	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

Accuracy

3	Ranges < 15 Ft. = +/- 0.50% FSO (BFSL)
5	Ranges ≥ 15 Ft. = +/- 0.35% FSO (BFSL)
1	≤ +/- 0.1% FSO Optional (All Ranges) Please Note: Total length of Transmitter increases by 1.375"

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

Contact your Viatran Applications Engineer for Accessories such as Cable Hangers, Junction Boxes, Digital Displays, Pump Controllers and more!

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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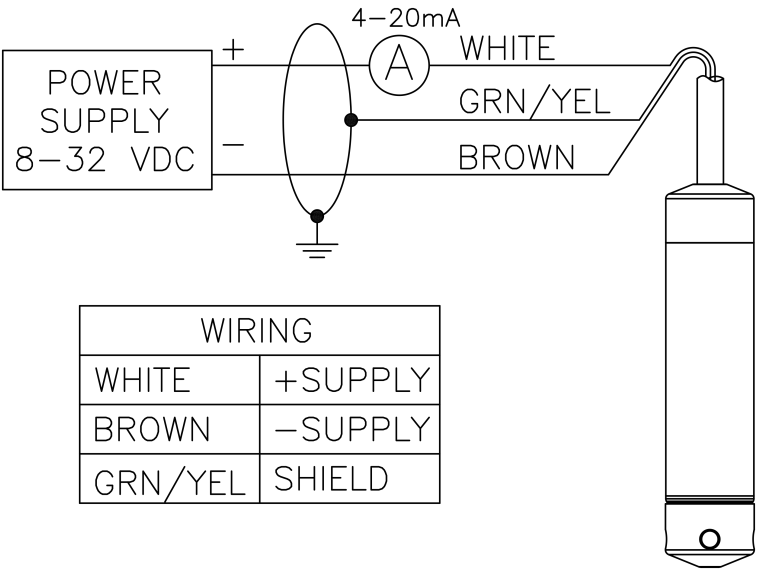


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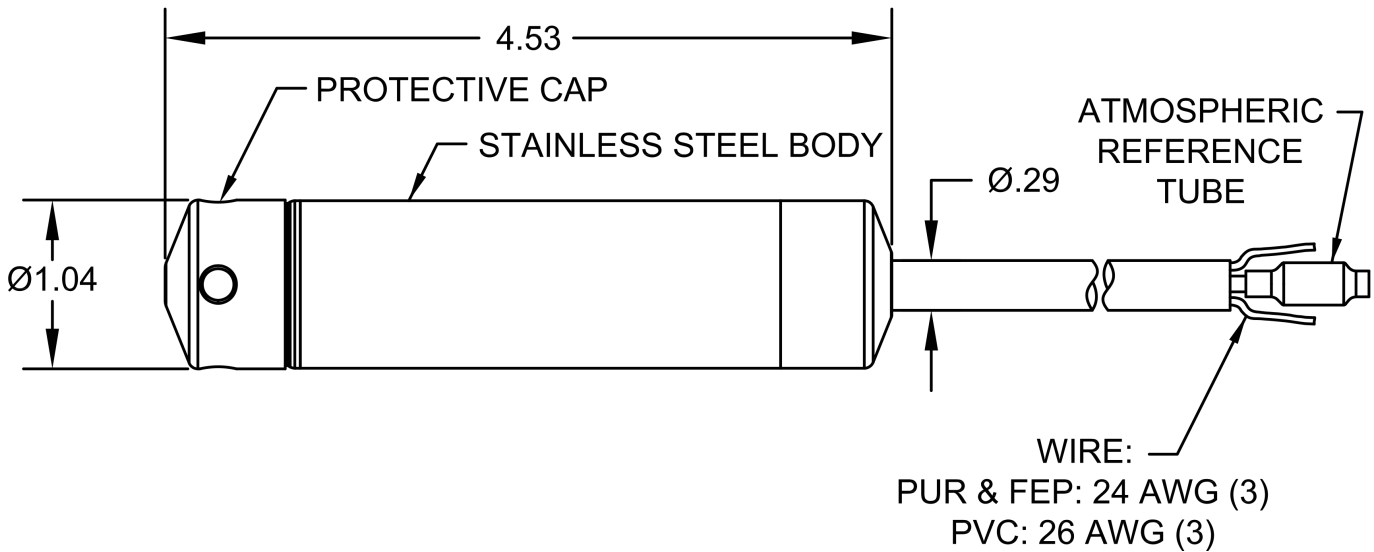
Connection Diagrams & Wiring

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

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



WIRING	
WHITE	+SUPPLY
BROWN	-SUPPLY
GRN/YEL	SHIELD



Note: 0.1% FSO Accuracy Option increases total length by 1.375 inches!

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