

A submersible level transmitter with a twist!

- The DLT series allows for a quick sensor swap without the removal of your installed cable. No special tools are required. Simply pull up sensor, hold the sensor head, then twist the sensor coupling sleeve till it is no longer engaged and just separate the two halves!
- The Viatran Model 592 DLT is a submersible transmitter specifically designed to meet the challenging demands of liquid measurement. The ability to detach the sensor can be an enormous time saver when or if it's ever needed.
- Available in ranges from 0-40 Inches 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	0-40 Inches W.C. to 0-335 Feet W.C. or equivalent in Meters or PSI
Accuracy	≤ +/- 0.35% FSO for ranges ≥ 15 Ft. W.C. [Combined Non-Linearity (BFSL), Hysteresis & Repeatability]
Compensated Temperature Range	32° to 122° F (0 to 50° 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	≤ +/- 1.1% FSO per 100° F
Thermal Effect on Span	≤ +/- 1.1% 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
Burst Pressure	5x Minimum
Weight	0.9 lbs. (without cable)

Materials of Construction

Housing	PP-HT (Polypropylene High Temperature)
Sensor Diaphragm	316L stainless steel
O-ring Seals	FKM or EPDM (customer specified)
Protective Cap	POM (Polyoxymethylene)

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Model 592 Detachable Level Transmitter

How to Order

MODEL 592	UNITS OF PRESSURE (1 digit)	PRESSURE RANGE (4 digits)	SEALS (2 digits)	CABLE FORMAT (2 digits)	ACCURACY (1 digit)	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 0-40 Inches 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)

Accuracy

5	Ranges < 15 Ft. = +/- 0.50% FSO (BFSL)
3	Ranges ≥ 15 Ft. = +/- 0.35% FSO (BFSL)

Cable Length

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

Options

EA	Special Calibration Run
FA	Russian Metrology Certificate
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.

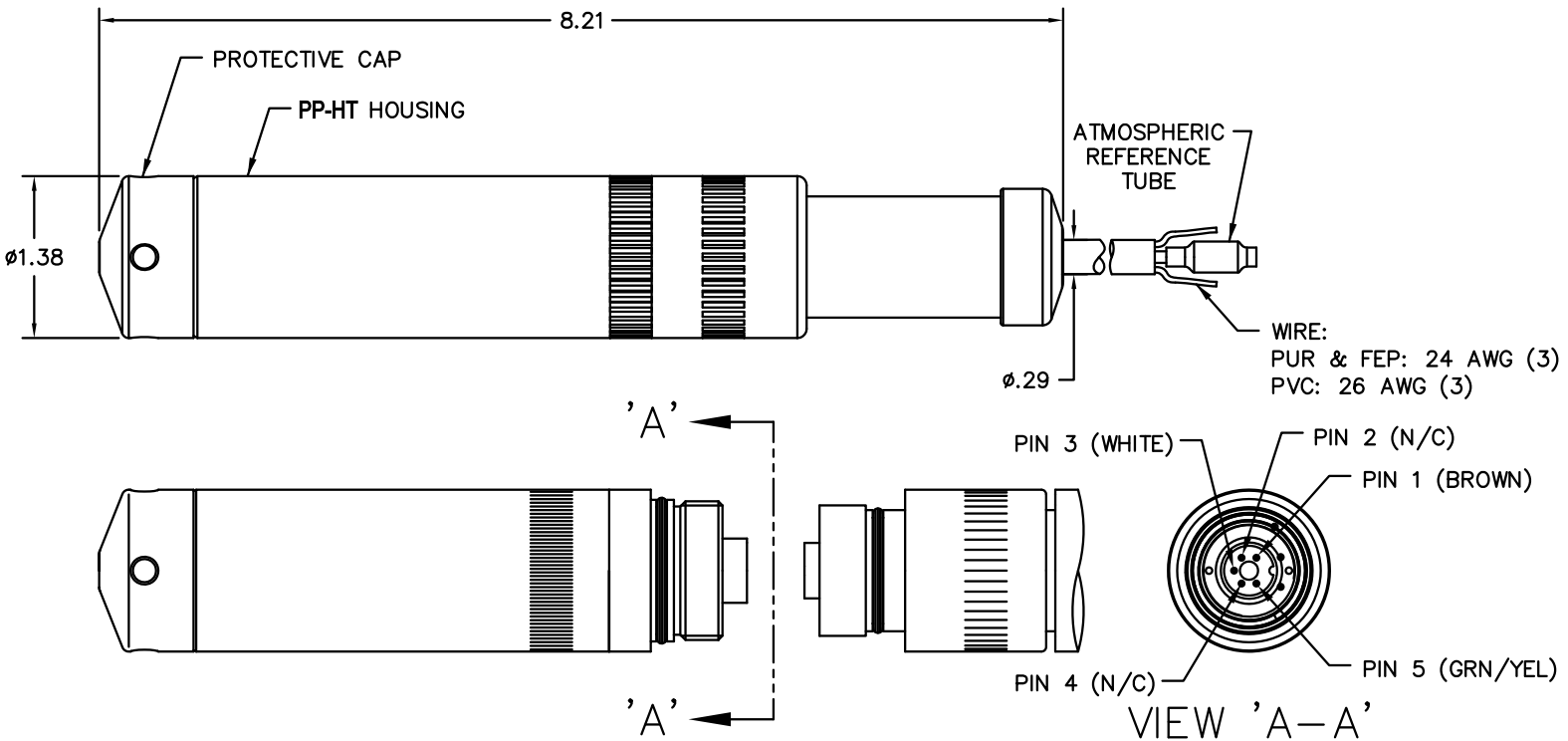
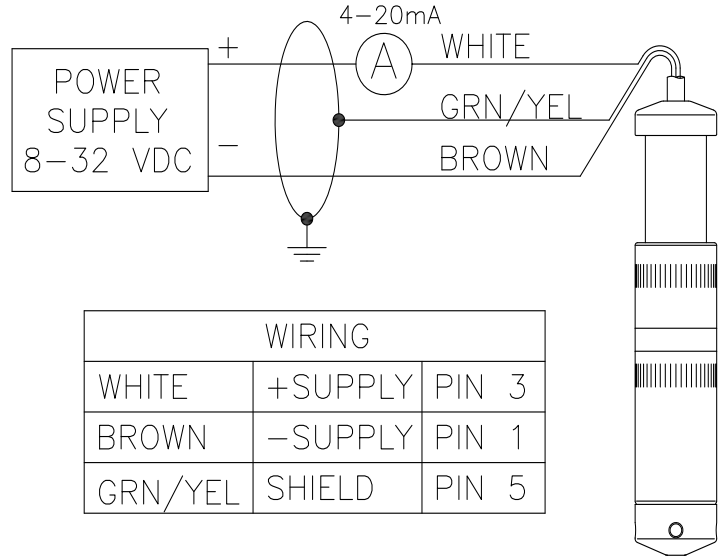


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Connection Diagrams & Wiring

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

The 592 detachable level transmitter can be powered by a DC power supply ranging from 8 to 32 volts. See installation manual for details.



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