

Model 592

Detachable Level Transmitter



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, twist the sensor coupling sleeve till it is no longer engaged and then 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.
- 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 From0-40 Inches W.C. to 0-335 Feet W.C.
	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.
	Compensated Temperature Range32° to 122° F (0 to 50° C)
	Operating Temperature Range32 to 122° F (0 to 50° C) Note: Medium must not freeze near sensor
	Storage Temperature Range14° 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 Signal4-20 mA
	Supply Voltage8-32 Vdc
	Power Supply Regulation< +/- .005% FSO per volt
	Circuit ProtectionReverse polarity protected, CE marked
	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 Limit4x Minimum
	Burst Pressure5x Minimum
	Weight0.9 lbs. (without cable)
Materials of Construction	HousingPVC
	Sensor Diaphragm316L stainless steel
	O-ring SealsFKM or EPDM (customer specified)
	Protective CapPOM (Polyoxymethylene)



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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

Pressure Range

Any Range from 0-40 Inches W.C. up to 0-335 Feet W.C. can be specified at no additional cost.
(Ranges must be in Inches WC or Feet WC)

*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
- 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.

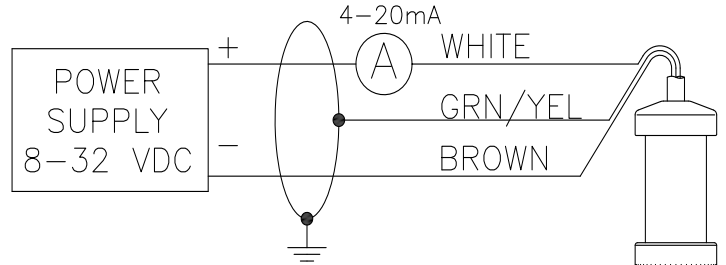


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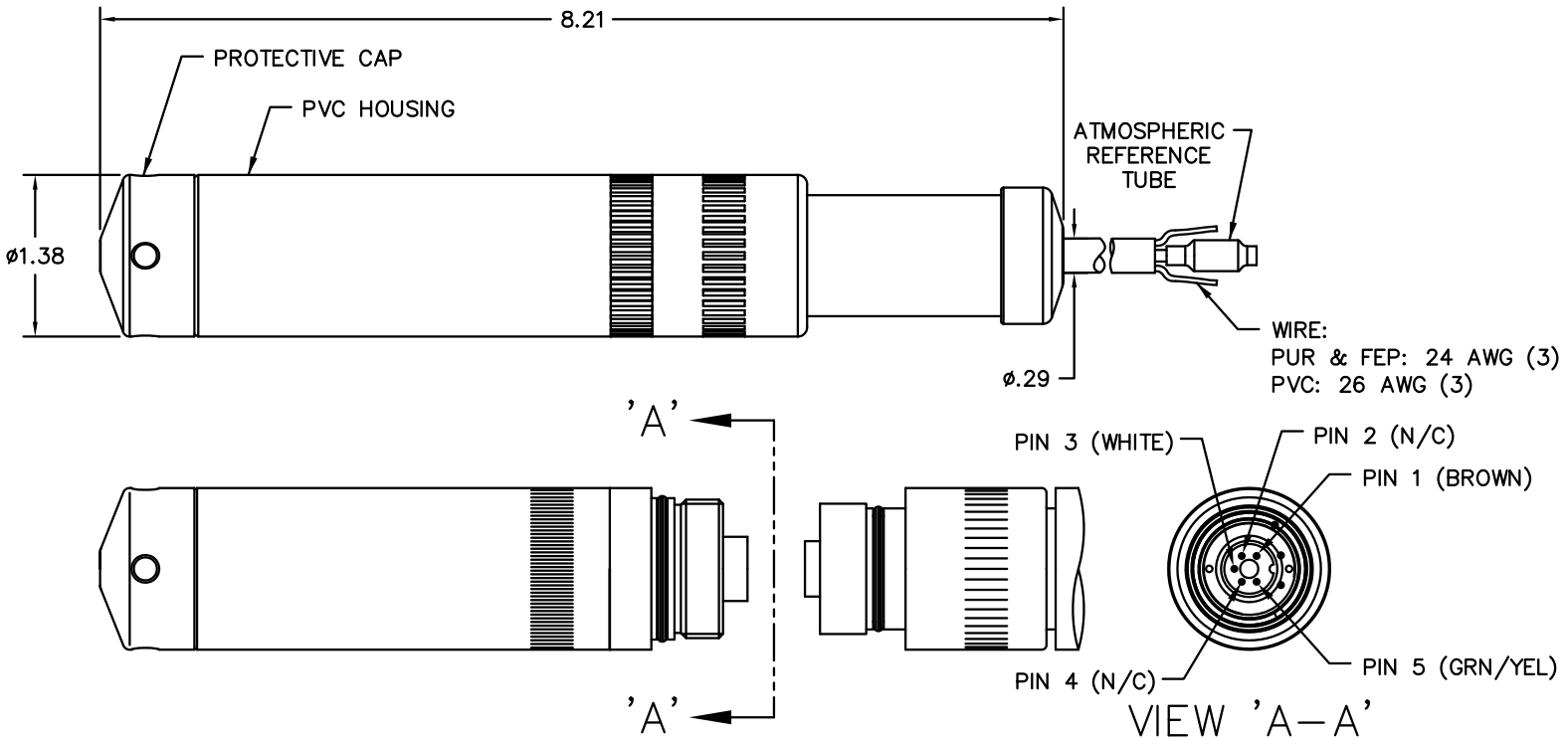
Connection Diagrams & Wiring

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 more details.



WIRING		
WHITE	+SUPPLY	PIN 3
BROWN	-SUPPLY	PIN 1
GRN/YEL	SHIELD	PIN 5



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