Model 591

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 591 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 40 Inches W.C. to 835 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 From	0-40 Inches W.C up to 0-835 Feet W.C.				
	Accuracy[Combined Non-Linearity (BFSL), Hysteresis & Repeatability]	≤ +/-0.1% FSO				
	Compensated Temperature Range					
	Operating Temperature Range	4° to 158° F (-20 to 70° C) Note: Medium must not freeze near sensor				
	Storage Temperature RangeLong Term Stability (%FSO)	13° to 158° F (-25 to 70° C) ≤ +/- 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		8-32 Vdc				
	Voltage Spike ProtectionResponse Time	Withstand 1000 volt spike per EN 61000< 200mSec				
Mechanical						
Materials of Construction	HousingSensor DiaphragmO-ring SealsProtective Cap	316L stainless steelFKM or EPDM (customer specified)				





How to Order

MODEL *591*

UNITS OF PRESSURE PRESSURE RANGE (1 digit) (4 digits) SEALS
(2 digits)

CABLE FORMAT (2 digits)

ACCURACY CABLE LENGTH

(3 digits)

(1 digit)

OPTIONS (2 digits)

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 0-835 Feet W.C. Feet W.C. can be specified at no additional cost. (Ranges must be in Inches W.C. or Feet W.C.)

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

1 = \leq +/- 0.1% 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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^{*}Consult factory for range code

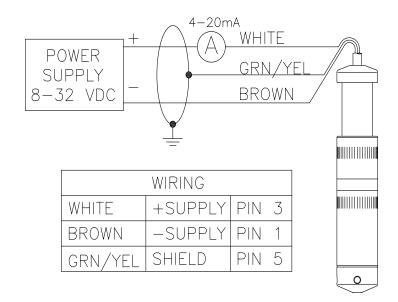
^{**}Please advise if specific gravity is other than 1

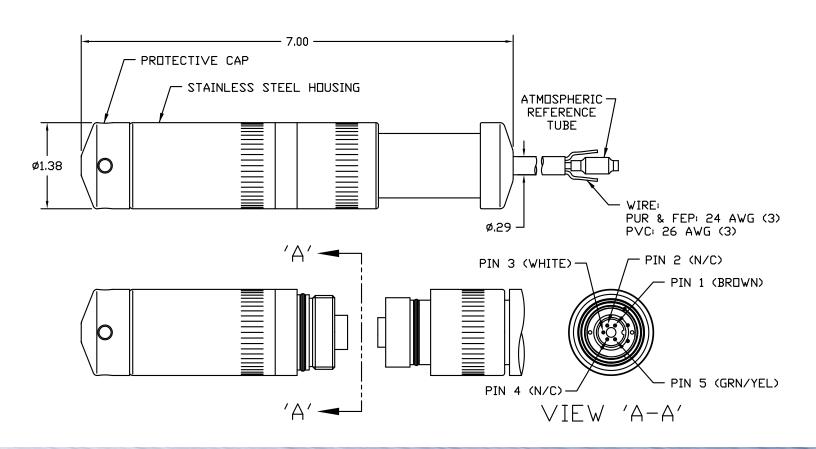
Connection Diagrams & Wiring

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

The 591 detachable level transmitter can be powered by a DC power supply ranging from 8 to 32 volts. See installation manual for more details.







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