

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 595 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 0-16 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 From0-16 Inches W.C. to 0-335 Feet W.C. or equivalent in Meters or PSI.

Accuracy≤ +/-0.35% FSO Standard
[Combined Non-Linearity (BFSL),
Hysteresis & Repeatability]≤ +/- 0.25% FSO Improved

Compensated Temperature Range32° to 122° F (0 to 50° C)

Operating Temperature Range14° to 122° F (-10 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≤ +/- 0.1% FSO per 100° F

Thermal Effect on Span≤ +/- 0.1% FSO per 100° F

Electrical

Output Signal4-20 mA

Supply Voltage10-32 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≤ 380mSec

Mechanical

Pressure ConnectionOpen Face

Ingress ProtectionIP 68

Overpressure Limit6x Minimum (≥ 134 Ft. range = 3.2x)

Weight0.9 lbs. (without cable)

Materials of Construction

HousingPolypropylene - High Temperature (PP-HT)

Sensor DiaphragmCeramic

O-ring SealsFKM or EPDM (customer specified)

Viatran

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Model 595

Detachable Level Transmitter

How to Order

MODEL	UNITS OF PRESSURE	PRESSURE RANGE	SEALS	CABLE FORMAT	ACCURACY	CABLE LENGTH	OPTIONS																
595	(1 digit)	(4 digits)	(2 digits)	(2 digits)	(1 digit)	(3 digits)	(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 0-16 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																							
<u>Example of Four Digit Codes:</u>																							
<table border="1"> <thead> <tr> <th>Range</th> <th>Four Digit Codes for Range</th> </tr> </thead> <tbody> <tr> <td>5</td> <td>= 5 0 0 0 Insert Range Code 5000</td> </tr> <tr> <td>10</td> <td>= 1 0 0 1 Insert Range Code 1001</td> </tr> <tr> <td>15</td> <td>= 1 5 0 1 Insert Range Code 1501</td> </tr> <tr> <td>50</td> <td>= 5 0 0 1 Insert Range Code 5001</td> </tr> <tr> <td>100</td> <td>= 1 0 0 2 Insert Range Code 1002</td> </tr> <tr> <td>250</td> <td>= 2 5 0 2 Insert Range Code 2502</td> </tr> <tr> <td>835</td> <td>= 8 3 5 2 Insert Range Code 8352</td> </tr> </tbody> </table>								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
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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																							
3	Standard Accuracy +/- 0.35% FSO (BFSL)																						
2	Improved Accuracy +/- 0.25% FSO (BFSL)																						
Cable Length																							
XXX	Listed in Whole Meters Only (must be 3 digits - ex. 012 = 12 Meters)																						

Options

- DV SharkCage™ Removable Protective Cage
- EA Special Calibration Run
- FA Russian Metrology Certificate
- PW Calibrate item with meter/display



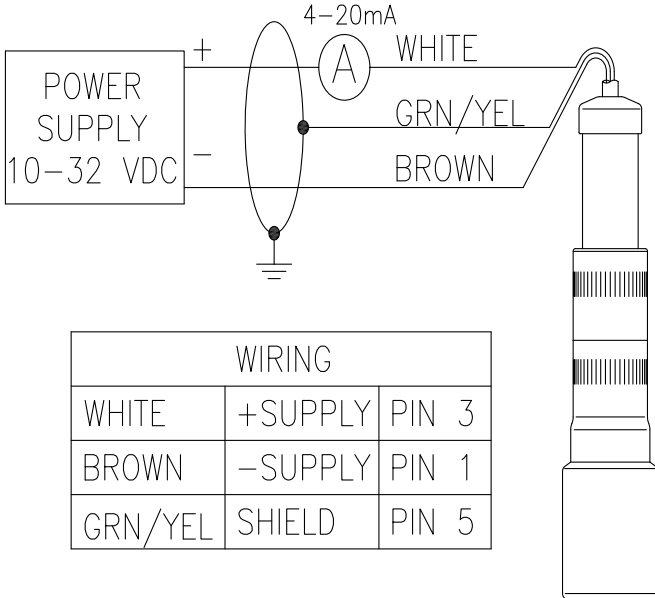
Information is accurate to the best of Viatran's knowledge. We reserve the right to change specifications at any time. Please contact Viatran for specific order inquiries.

Model 595

Detachable Level Transmitter

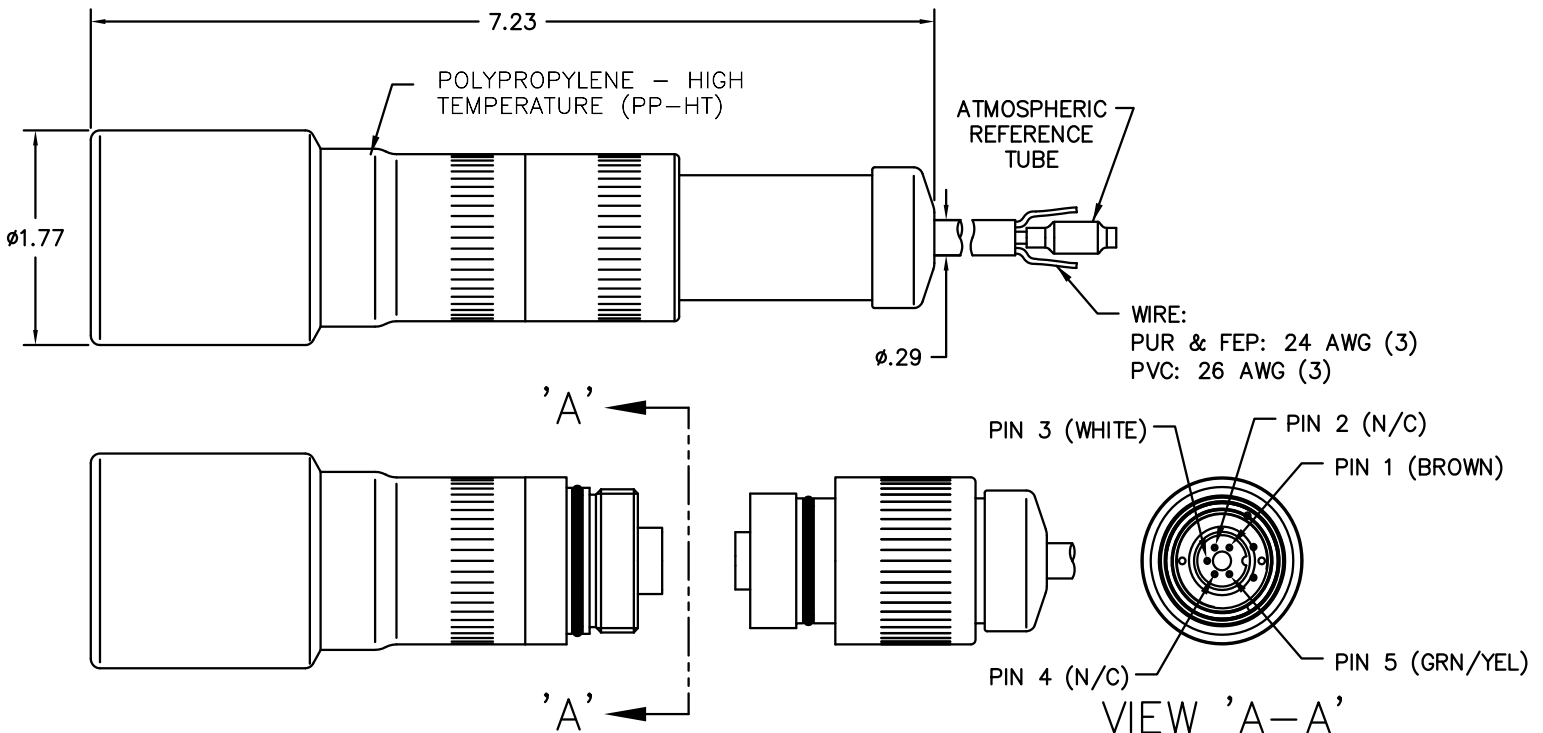
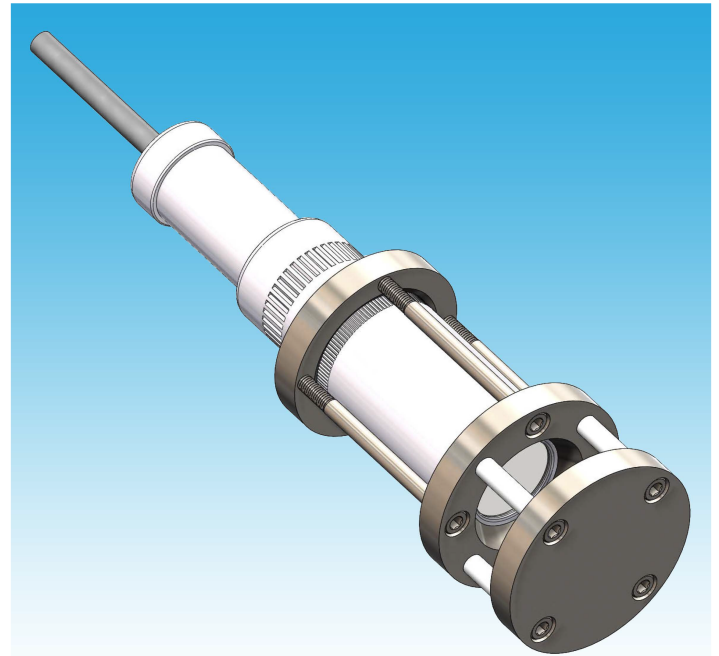
Connection Diagrams & Wiring

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



The 595 detachable level transmitter can be powered by a DC power supply ranging from 10 to 32 volts. See installation manual for more details.

SHARKCAGE™ (Option "DV" illustrated below)



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