Model 590





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 590 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 0-835 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 Water Column up to 0-835 Feet Water Column				
	Accuracy[Combined Non-Linearity (BFSL), Hysteresis & Repeatability]					
	Compensated Temperature Range32° to 158° F (0 to 70° C)					
	Operating Temperature Range4° to 158° F (-20 to 70° C) Note: Medium must not freeze near senso					
	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					
	Power Supply Regulation					
	Circuit Protection					
	RFI/EMI	.CE EMC compliant as per IEC EN 61326				
	Voltage Spike Protection	.Withstand 1000 volt spike per EN 61000				
	Response Time					
Mechanical	Pressure Connection	Protective POM cap				
	Ingress Protection	.IP 68				
	Overpressure Limit	4x Minimum (>335 Ft. range = 3.2x)				
	Burst Pressure					
	Weight	0.9 lbs. (without cable)				
Materials of Construction	Housing	316L stainless steel				
	Sensor Diaphragm	316L stainless steel				
	O-ring Seals					
	Protective Cap	POM (Polyoxymethylene)				





How to Order

MODEL 590

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 Water Column up to 0-835 Feet Water Column can be specified at no addional cost. (Ranges must be in Inches WC or Feet WC)

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

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

5 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.











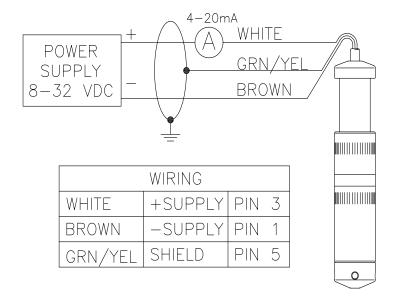
^{*}Consult factory for range code

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

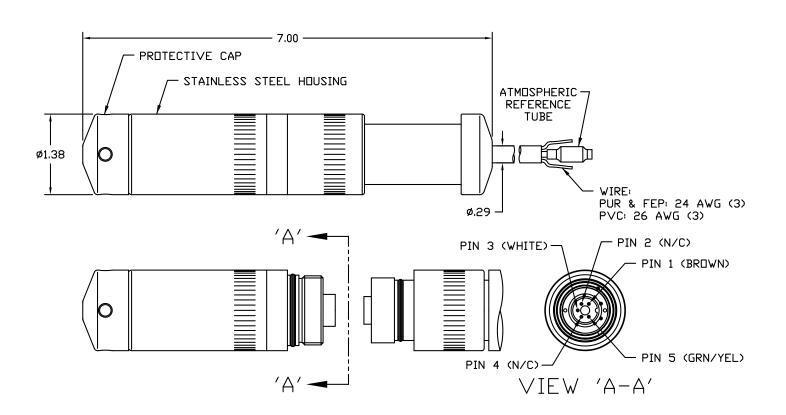
Connection Diagrams & Wiring

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

The 590 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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