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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 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. 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 up to 0-835 Feet W.C. or equivalent in Meters or PSI.			
	Accuracy [Combined Non-Linearity (BFSL), Hysteresis & Repeatability]	≤ +/-0.1% FSO			
	Compensated Temperature Range				
	Operating Temperature Range				
	Storage Temperature Range Long Term Stability (%FSO)	13° to 158° F (-25 to 70° C) $\leq +/-0.1\%$ 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 Supply Voltage	8-32 Vdc			
		Withstand 1000 volt spike per EN 61000			
Mechanical	Pressure Connection Ingress Protection	IP 68			
		4x Minimum (> 525 Ft. range = 3.2x) 5x Minimum (> 525 Ft. range = 4.8x) 0.9 lbs. (without cable)			
Materials of Construction	Housing Sensor Diaphragm				
	O-ring Seals Protective Cap	FKM or EPDM (customer specified) POM (Polyoxymethylene)			

Viatran

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	r MODEL 591	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)
Units of	Pressure							
F I M P	Feet of Water Column Inches of Water Column Meters of Water Colu PSI (Whole numbers	mn mn						
Pressure	e Range							
	ge from 0-40 Inches W. et W.C. or equivalent ca I cost.							
	factory for range code advise if specific gravit	y is other than 1						
Exa	ample of Four Digit Codes	<u>.</u>						
	5 = 5 0 0 0 10 = 1 0 0 1 15 = 1 5 0 1 50 = 5 0 0 1 100 = 1 0 0 2 250 = 2 5 0 2	Digit Codes for Ran Insert Range Code Insert Range Code Insert Range Code Insert Range Code Insert Range Code Insert Range Code Insert Range Code	5000 1001 1501 5001 1002 2502					
Seals								
GK GD	Fluoroelastomer (FKN Ethylene Propylene (I							
Cable Fo	ormat							
PC TL PA	Polyvinyl Chloride (P Polyurethane Cable (Fluorinated Ethylene-	PUR) *Stocked ir	select lengths	for fast delivery				
Accurac	у							
1	= ≤ +/- 0.1% FSO (BI	FSL)						
Cable Le	ength							
XXX	Listed in Whole Meter	rs Only (must be	3 digits - ex. 01	2 = 12 Meters)				
Options								
EA FA PW ZB	Special Calibration R Russian Metrology Co Calibrate item with m 1/2" NPT Conduit Ada	ertificate eter/display			*		VIAT RAN'	
					"ZB" Option			

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.



98DS591 Rev E

Connection Diagrams & Wiring

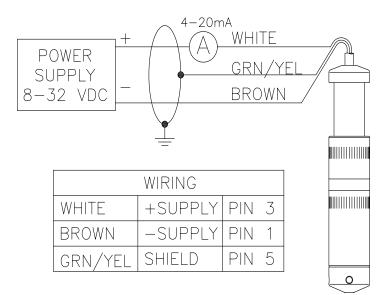
The standard wiring of your Viatran detachable level transmitter is outlined below. The wiring information is also marked on your unit.

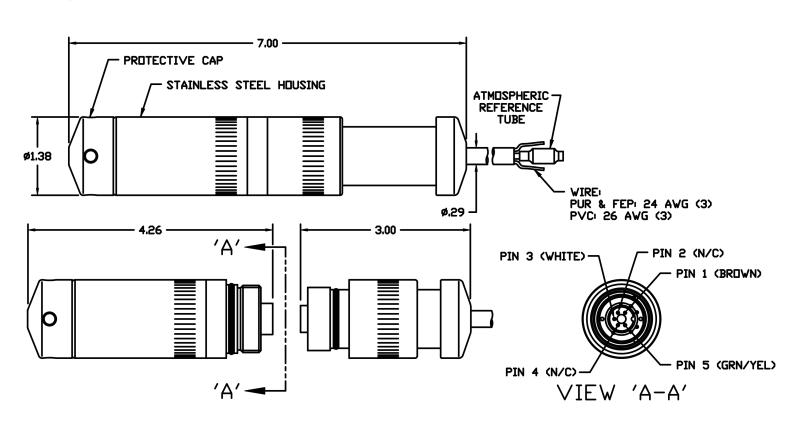
The 591 detachable level transmitter can be powered by a DC power supply ranging from 8 to 32 volts. See installation manual for more details.



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