

## SUBMERSIBLE LEVEL TRANSMITTER



TL1

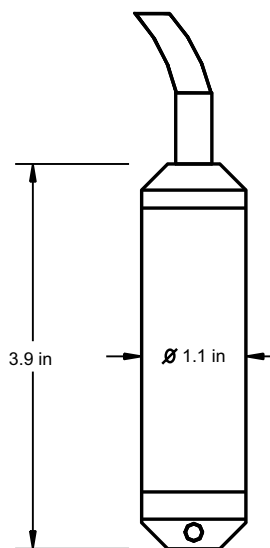


### FEATURES / BENEFITS

- Accurate Level Measurements from 5" WC to 300 psi
- 316SS and Polyurethane Wetted Parts
- $\pm 0.25\%$  or  $\pm 0.125\%$  Accuracy
- Vented, Strong Submersible Cable
- Lightning, Short Circuit, and Reverse Polarity Protection
- NEMA 6/IP68 Protection, Submersible to 1,000 ft.

### SPECIFICATIONS

<b>Output Signal</b>	4-20mA, 2-wire 0-5Vdc, 0-10Vdc, or 0.5-2.5Vdc (3-wire)
<b>Pressure Ranges</b>	0-2 psi through 0-500 psi
<b>Proof Pressure</b>	2x Range
<b>Burst Pressure</b>	4x Range
<b>Accuracy (BFSL)</b>	$\pm 0.25\%$ of span (standard) $\pm 0.125\%$ of span (standard)
<b>Input</b>	12-30Vdc (for current output) 14-30Vdc (for Vdc output) 6Vdc (for 0.05-2.5Vdc output)
<b>Temperature</b>	Compensated: 32 to 122°F Effect: $\pm 0.01\%$ of span/°F (on zero and span) Media: -14 to 175°F
<b>Environmental Rating</b>	NEMA 6, IP68 (submersible to 1,000 ft.)
<b>Electrical Protection</b>	Reverse polarity, short circuit, and lightning protection
<b>Submersible Cable</b>	Vented, watertight, polyurethane jacketed, tensile strength: maximum 220 lbs.
<b>Wetted Parts</b>	316 SS, Cable: Polyurethane (teflon available), Nose Cone: Polyamide



TL1 (case style 1)

Note: Dimensions are nominal and may vary. Check with Reotemp sales if dimensions are critical. Other case styles available.

**HOW TO ORDER:** Choose options to build a part number. For example: **TL1IN502A-P40-N**

MODEL	RANGE	ACCURACY	OUTPUT SIGNAL	CABLE	PROCESS CONNECTION	OPTIONS
<b>TL1</b> TL1 = General Protection TLA = Intrinsically Safe, FM Compliant & CSA Approved	<b>IN50</b> Special INWC ranges for TL1: IN50 = 0/50 IN100 = 0/100 IN150 = 0/150 IN200 = 0/200 IN400 = 0/400 See Transmitter Technical Reference on 239	<b>2</b> 2 = $\pm 0.25\%$ Full Scale (standard) 3 = $\pm 0.125\%$ Full Scale	<b>A</b> Both Models A = 4-20mA (2-Wire) (standard) TL1 ONLY B = 0-5Vdc (3-Wire) E = 0-10Vdc (3-Wire) H = 0.5-2.5Vdc (3-Wire)	<b>P200</b> P??? = PUR Cable (??? = Length in .ft) F??? = FEP Cable (??? = Length in .ft)	<b>G</b> N = Standard Nose Cone W = Weighted Nose Cone G = 2" Flush Diaphragm with Protective Cage 2 = 1/2" Male NPT Adapter	<b>LP</b> TL1 ONLY LP = Lightning Protection

## TRANSMITTER TECHNICAL REFERENCE

SERIES		T90	TA	TSTA	TSA/ TSB	TSC	TSTP/ TSTDS	TSTC	TG1	TP/ TDS	TC	TE	TH1	THX	TL1
Code		VACUUM													
P01	-30 inHg/0 psi	✓	✓	✓	✓	✓		✓				✓	✓	✓	
P01R	-14.5/0 psi							✓			✓				
Code		COMPOUND RANGES													
P02	-30 inHg/15psi	✓	✓	✓	✓	✓			✓				✓	✓	
P03	-30 inHg/30 psi	✓	✓	✓	✓	✓			✓			✓	✓		
P04	-30 inHg/60 psi	✓	✓	✓	✓	✓			✓						
P05	-30 inHg/100 psi	✓	✓	✓	✓	✓			✓			✓			
P06	-30 inHg/150 psi	✓	✓	✓	✓	✓			✓					✓	
P07	-30 inHg/200 psi	✓	✓	✓								✓			
P08	-30 inHg/300 psi	✓	✓	✓	✓	✓			✓						
P02R	-14.5/0/15 psi							✓			✓				
P03R	-14.5/0/30 psi						✓	✓		✓	✓				
P04R	-14.5/0/60 psi						✓	✓		✓	✓				
P05R	-14.5/0/100 psi						✓	✓		✓	✓				
P06R	-14.5/0/150 psi						✓	✓		✓	✓				
P07R	-14.5/0/200 psi						✓	✓		✓	✓				
P08R	-14.5/0/300 psi						✓	✓		✓	✓				
Code		PRESSURE RANGES													
IN50	0/50 inH <sub>2</sub> O	✓	✓	✓				✓			✓		✓		✓
IN100	0/100 inH <sub>2</sub> O	✓	✓	✓				✓	✓		✓		✓		✓
IN200	0/200 inH <sub>2</sub> O	✓	✓	✓				✓			✓				✓
L11	0/55 INWC	✓	✓	✓		✓		✓			✓		✓		
L12	0/80 INWC	✓	✓	✓		✓		✓			✓		✓		
L13	0/140 INWC	✓	✓	✓		✓		✓	✓		✓		✓		
L14	0/280 INWC	✓	✓	✓	✓	✓		✓	✓		✓		✓		
P11	0/2 psi	✓	✓	✓		✓		✓			✓		✓	✓	✓
P12	0/3 psi	✓	✓	✓		✓							✓	✓	✓
P13	0/5 psi	✓	✓	✓	✓	✓		✓	✓		✓		✓	✓	✓
P14	0/10 psi	✓	✓	✓	✓	✓		✓	✓		✓		✓	✓	✓
P15	0/15 psi	✓	✓	✓	✓	✓		✓	✓		✓	✓	✓	✓	✓
P16	0/30 psi	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
P175	0/50psi	✓	✓	✓			✓	✓		✓	✓				
P17	0/60 psi	✓	✓	✓	✓	✓			✓			✓	✓	✓	✓
P18	0/100 psi	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
P195	0/150 psi	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓
P20	0/200 psi	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓
P21	0/300 psi	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓
P26	0/500 psi	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓
P23	0/600 psi	✓	✓	✓	✓	✓			✓				✓		
P27	0/750 psi	✓	✓	✓	✓	✓			✓			✓	✓	✓	✓
P25	0/1000 psi	✓	✓	✓	✓	✓	✓		✓	✓		✓	✓	✓	✓
P30	0/1500 psi	✓	✓						✓	✓			✓		
P31	0/2000 psi	✓	✓						✓	✓			✓		
P32	0/3000 psi	✓	✓						✓	✓			✓		
P34	0/5000 psi	✓	✓						✓	✓			✓	✓	
P35	0/6000 psi	✓	✓						✓				✓		
P28	0/7500 psi	✓	✓						✓	✓			✓	✓	
P37	0/10000 psi	✓	✓						✓				✓	✓	
P38	0/15000 psi								✓				✓	✓	
P39	0/20000 psi												✓		
P40	0/30000 psi												✓		
P41	0/40000 psi												✓		
P42	0/50000 psi												✓		
P43	0/60000 psi												✓		
Code		ABSOLUTE RANGES													
P15A	0/15 psia		✓	✓	✓				✓		✓				
P16A	0/30 psia		✓	✓	✓				✓		✓				
P17A	0/60 psia		✓	✓	✓				✓		✓				
P18A	0/100 psia		✓	✓	✓				✓		✓				
P19A	0/150 psia		✓	✓	✓				✓		✓				
P20A	0/200 psia		✓	✓	✓				✓		✓				

TRANSMITTERS

**Don't See the Range You Need?**  
Other ranges may be available, contact REOTEMP customer service for more information.

✓ Indicates that the option is available  
Note: Specifications are subject to change.