

VTLP00/VTLP10/VTLP20 SUBMERSIBLE HYDROSTATIC LEVEL METER
VTLP100 / VTLP110 / VTLP120- Submersible Hydrostatic Level Meter

- ▶ Compact/anti-block/standard models available
- ▶ Optional Teflon coating for corrosive medium
- ▶ Measuring range from 0...0.05bar to 0... 25bar
- ▶ Protection class IP68
- ▶ 2-wire or 3-wire selectable
- ▶ Multiple outputs selectable
- ▶ Stainless steel housing

VTLP1x0 series Submersible Hydrostatic Level Meter equips with a diffused silicon pressure sensor(LP100/LP110) or ceramic capacitance pressure sensor(LP120) to detect the change of the liquid level pressure, which is processed and output as standard electrical signals.

Metal housing, compact design, multiple outputs, good for non-crystalline medium.

VTLP100 – standard model, for most of applications.

VTLP110 – compact model, for applications with limited mounting space.

VTLP120 – high accuracy, anti-blocking model, for viscous medium.

Teflon coating is available for all these models.


Specifications

Measuring Range	From 0...0.5bar to 0...25bar
Overpressure	1.5 x F.S.
Power Supply	12...30Vdc
Current Consumption	
2-wire	Same as current output (4...20mA)
3-wire	≤20mA
2-wire Current Analog Output	
Output	2-wire 4...20mA
Load RA(Ω)	$RA \leq (U_s - 10)V / 0.02A$
3-wire Voltage Analog Output	
Output	3-wire 0...5V, 1...5V, 0...10V
Load RA(Ω)	$RA \geq 5K$
Accuracy	
LP100/LP120	$\leq \pm 0.5\% \text{ F.S.}; \text{ optional } \leq 0.25\% \text{ F.S.}$
LP110	$\leq \pm 0.5\% \text{ F.S.}$
Stability(Drift/Year)	$\leq \pm 0.02\% \text{ F.S.}$
Temperature	
Medium	-40...+85℃
Ambient	-40...+85℃
Storage	-40...+125℃
Material	
Cable	PUR
Wetted Parts	316 stainless steel, teflon coating (corrosion resistant)
Protection Class	IP68
Electrical Connection	Cable outlet (cable length customized available)

Applications

- ▶ Open containers
- ▶ Tank
- ▶ Pool
- ▶ Reservoir

Wiring

Cable outlet

Technical drawings of three probe models: VTLP120, VTLP100, and VTLP110. Each drawing shows a side view of the probe with dimensions in millimeters and inches.

- VTLP120:**
 - Tip diameter: $\varnothing 0.29$ ($\varnothing 7.4$)
 - Base diameter: $\varnothing 0.98$ ($\varnothing 25$)
 - Shaft diameter: $\varnothing 1.54$ ($\varnothing 39$)
 - Shaft length: 3.66 (93)
 - Tip length: 0.75 (19)
 - Total length: 1.10 (28)
- VTLP100:**
 - Tip diameter: $\varnothing 0.29$ ($\varnothing 7.4$)
 - Base diameter: $\varnothing 0.55$ ($\varnothing 14$)
 - Shaft diameter: $\varnothing 1.06$ ($\varnothing 27$)
 - Shaft length: 4.33 (110)
 - Tip length: 0.71 (18)
 - Total length: 0.16 (4)
 - Tip radius: $4 \times R0.06$ ($4 \times R1.5$)
 - Base radius: 0.94 (24)
- VTLP110:**
 - Tip diameter: $\varnothing 0.29$ ($\varnothing 7.4$)
 - Base diameter: $\varnothing 0.55$ ($\varnothing 14$)
 - Shaft diameter: $\varnothing 0.71$ ($\varnothing 18$)
 - Shaft length: 4.33 (110)
 - Tip length: 0.71 (18)
 - Total length: 0.16 (4)
 - Tip radius: $4 \times R0.06$ ($4 \times R1.5$)
 - Base radius: 0.75 (19)

VTLP00/VTLP10/VTLP20 SUBMERSIBLE HYDROSTATIC LEVEL METER

Order Code

LP :	Hydrostatic level meter
100 :	Series# – submersible standard
110 :	Series# – submersible compact
120 :	Series# – submersible anti-blocking
Measuring Range :	Note : LP120 is the only choice if measuring range is less than 0.1bar. B0.05=0...0.05bar, B0.07=0...0.07bar, B0.1=0...0.1bar, B0.2=0...0.2bar, B0.5=0...0.5bar, B0.7=0...0.7bar, B01=0...1bar, B02=0...2bar, B05=0...5bar, B07=0...7bar, B10=0...10bar, B15=0...15bar, B17=0...17bar, B25=0...25bar
	Note: If you want use psi as unit, use Pxxxx: P for psi while xxxx is the measuring range.
S :	Housing material 316 stainless steel
T :	Housing material 316 stainless steel + Teflon coating (Corrosion resistant)

LP	100	B001	S	42	10
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42 :	4...20mA (2-wire or 3-wire)
05 :	0...5V (only for 3-wire)
15 :	1...5V (only for 3-wire)
01 :	0...10V (only for 3-wire)

Cable length L
1...300m (customized available)

Sepecial Order on Request

- ▶ Measuring range
- ▶ Electrical and / or process connection
- ▶ HART protocol