

# LT-1000 SERIES

## Level Transmitters

### PRODUCT DATA SHEET



**LT-1000** series are industry standard submersible and external mounted transmitters based on hydrostatic principle. LT-1000 series is fully compatible with ATS-LV1000 level controller. Transmitters are fabricated with high quality stainless steel or teflon (PTFE). Transmitters have an anti-clogging design which requires less maintenance while in operation.

Model	LT-1001		LT-1002	
				
Measuring Range	<b>Metric Models</b> 0.00 – 1.00 Meter 0.00 – 2.00 Meter 0.00 – 3.50 Meter 0.00 – 7.00 Meter 0.00 – 10.0 Meter 0.00 – 25.0 Meter 0.00 – 40.0 Meter Sensor calibrated with H <sub>2</sub> O @ 25°C		<b>Metric Models</b> 0.00 – 1.00 Meter 0.00 – 2.00 Meter 0.00 – 3.50 Meter 0.00 – 7.00 Meter 0.00 – 10.0 Meter 0.00 – 25.0 Meter 0.00 – 40.0 Meter Sensor calibrated with H <sub>2</sub> O @ 25°C	
Accuracy	<b>ATS-LT1001L</b> ±0.25 % Accuracy ±0.5 % Linearity ±0.2 % Hysteresis ±0.2 % Repeatability	<b>ATS-LT1001H</b> ±0.1 % Accuracy ±0.2 % Linearity ±0.1 % Hysteresis ±0.1 % Repeatability	<b>ATS-LT1002L</b> ±0.25 % Accuracy ±0.5 % Linearity ±0.2 % Hysteresis ±0.2 % Repeatability	<b>ATS-LT1002H</b> ±0.1 % Accuracy ±0.2 % Linearity ±0.1 % Hysteresis ±0.1 % Repeatability
Analog Output	4~20mA corresponding to Pressure, +/- 0.05mA accuracy, 0.01mA resolution, maximum load 500Ω			
Temperature	Full Temperature compensation throughout the range Operating Temperature range for liquid (-40°C to +80°C) *Notify before ordering if the Temperature is above +50°C (for ATS-LT1001)			
Compatibility/Make	Available in SS 316 & PTFE Body (Compatible to Stainless Steel SS 316, PTFE, Polyamide PA 6 and CR (neoprene))		Available in SS 304 or SS 316	
Power Requirement	+12- 24 VDC (Maximum up to 40 VDC) with Polarity Protection Shielded 2 conductor wire is also available on user request			
IP Class Protection	IP68		IP65	
Weight (Assembly)	SS316 ≈ 220 grams (Excluding cable weight) PTFE ≈ 90 grams (Excluding cable weight)		≈ 155 grams	
Applications	Silo Tanks, Underground Tanks, Fuel Tanks, Edible Oil Tanks, Dairy Storage Tanks, Overhead Water Tanks, Domestic Water Tanks			

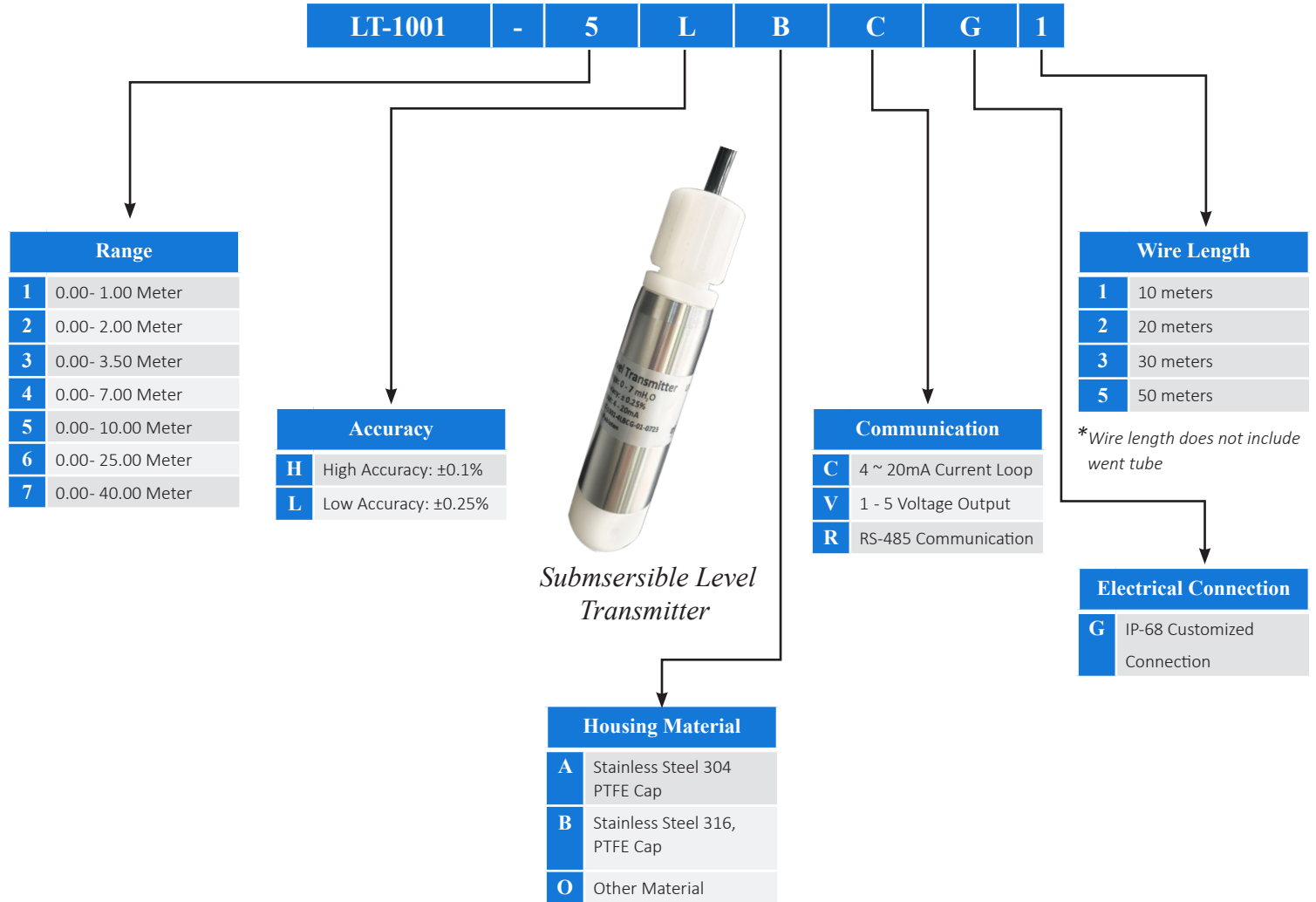
Refer to model selection guide for further details.



# LT-1001

## Submersible Level Transmitter

### MODEL SELECTION GUIDE



### EXAMPLE

**LT-1001 - 5 H A C G 1**

0.00 to 10.00 meters

High Accuracy: ±0.1%

Stainless Steel 304, PTFE Cap

4 ~ 20mA Current Loop

IP68 Customized Connection

10 meters Wire Length

**Standard Model:** LT-1001-1LACG1

# LT-1002

## External Mount Level Transmitter

### MODEL SELECTION GUIDE



**LT-1002 - 2 H A H C D**

Range	
<b>1</b>	0.00- 1.00 Meter
<b>2</b>	0.00- 2.00 Meter
<b>3</b>	0.00- 3.50 Meter
<b>4</b>	0.00- 7.00 Meter
<b>5</b>	0.00- 10.00 Meter
<b>6</b>	0.00- 25.00 Meter
<b>7</b>	0.00- 40.00 Meter

Accuracy	
<b>H</b>	High Accuracy: $\pm 0.1\%$
<b>L</b>	Low Accuracy: $\pm 0.25\%$

Mechanical Connection	
<b>A</b>	1/4 inch Male BSPP
<b>B</b>	1/2 inch Male BSPP
<b>C</b>	1/4 inch Female BSPP
<b>D</b>	1/2 inch Female BSPP
<b>E</b>	1/4 inch Male NPS
<b>F</b>	1/2 inch Male NPS
<b>G</b>	1/4 inch Female NPS
<b>H</b>	1/2 inch Female NPS
<b>I</b>	1/4 inch Male NPT
<b>J</b>	1/2 inch Male NPT
<b>K</b>	1/4 inch Female NPT
<b>L</b>	1/2 inch Female NPT
<b>S</b>	Sanitray Fitting
<b>O</b>	Other/Customized threads

Temperature Rating	
<b>L</b>	-40°C - 85°C
<b>H</b>	-40°C - 125°C

Electrical Connection	
<b>D</b>	4pin Din-Value Connector, IP65
<b>G</b>	2-wire PG13 Gland Connector, IP67

Communication	
<b>C</b>	4 ~ 20mA Current Loop
<b>V</b>	1-5 Voltage Output
<b>R</b>	RS-485 Communication



*External Mount Level Transmitter*

### EXAMPLE

<b>LT-1002</b>	<b>-</b>	<b>1</b>	<b>H</b>	<b>B</b>	<b>H</b>	<b>C</b>	<b>D</b>
		0.00 to 1.00 meters	High Accuracy: $\pm 0.1\%$	1/2" male BSPP connection	-40°C to 125°C temperature range	4~20mA Current Loop	4 pin DIN-Value Connector, IP65

**Standard Model:** LT-1002-1LALCD