

## SERIES: LTF120

- **VERY ACCURACATE**
- **316L ST. STEEL HOUSING**
- **SURGE (LIGHTNING) PROTECTION**
- **RANGES FROM 0...1 mH2O TO 0...250 mH2O**

### INTRODUCTION

Indumart *LTF120 Series* of Submersible Level Transmitters are two-wire instruments with thick film on ceramic sensors, which can measure the height (pressure) of the liquids in reservoirs. Their response time is 1 ms and have temperature compensation correction to modify the temperature drift effects.

Due to the materials and technology used in the construction of these transmitters, they stand high degrees of vibrations and shocks and are excellent in reliability and precision. The sensor's slim body, which can easily be inserted into a 1 inch tube, is made of stainless steel and the sensor cell is safeguarded by a protective cover at the end of instrument. The vented cable enables the sensor to be referenced against atmospheric pressure and the cable material can be specified as the material most suitable for the medium.

These transmitters are protected against lightning, rated to IP68 and meet electromagnetic compatibility (EMC) requirements and can have optional lightning protection.

Range (mH2O)	Range (kPa)	Over Range (kPa)
0...1	0...10	200
0...1.6	0...16	200
0...2	0...20	200
0...4	0...40	200
0...6	0...60	200
0...10	0...100	320
0...16	0...160	320
0...25	0...250	500
0...40	0...400	800
0...60	0...600	1200
0...100	0...1000	2000
0...160	0...1600	3200
0...250	0...2500	5000

**Other ranges and various pressure units are also available.**

Absolute and compound ranges may be ordered. The transmitter can also be ordered for media other than water.

### Applications:

Wells & Reservoirs  
Lakes & Rivers  
Water Treatment  
Sewage Treatment



### SPECIFICATIONS

<b>Sensor Type</b>	Thin film on ceramic
<b>Sensor Material</b>	Ceramic
<b>Housing</b>	316L stainless steel
<b>Press. Connection</b>	Closed
<b>Seal</b>	FKM
<b>Cable</b>	PUR (std.); Teflon or PE (option)
<b>O-Ring (media contact)</b>	FKM 70 Sh (std.), CR, EPDM (option)
<b>Accuracy</b>	0.3% F.S. @ 25°C for above 4 mH2O ranges 0.5% F.S. @ 25°C for 4 mW or below ranges
<b>Output</b>	4...20 mA, 2-wire
<b>Supply Voltage (U<sub>s</sub>)</b>	9...33 VDC
<b>Load (Ω)</b>	≤ (U <sub>s</sub> - 9) / 0.02
<b>Rise Time</b>	1 ms for 10...90% of the range
<b>Operating Temp.</b>	-25...+80°C (liquid state)
<b>Temperature Comp.</b>	-10...+80°C in the liquid state
<b>Protection</b>	IP68 (submersible), lightning surge (std.)
<b>Vibration</b>	6 g (25...2000 Hz)
<b>Shock</b>	50 g / 8 ms
<b>EMC Emission</b>	IEC 61000-6-3
<b>Immunity</b>	IEC 61000-6-2
<b>Dimensions</b>	Diameter: 22 or 24 mm; Length: 141 or 146.5 mm (longer with lightning protection option)
<b>Weight (without Cable)</b>	200 g (0.45 lb) approximately

*Specifications may change without prior notice.*

### ORDER CODE

<b>LTF120</b> -			
<b>Output</b> 4...20 mA (standard)	A		
<b>Cable</b> PUR (standard) Teflon PE		0 1 2	
<b>O-Ring</b> FKM 70 Sh (standard) CR EPDM			0 1 2

*Measuring range and length of cable must be specified by customer.*

*Example: LTF120-A00- 4 mH2O - 6 m cable*