



SERIES: LTF120

- ACCURACY UP TO 0.1%
- ST. STEEL, TITANIUM OR PVDF HOUSING
- RANGES FROM 0...1 mH2O TO 0...250 mH2O
- SURGE (LIGHTENING) PROTECTION (OPTION)

Applications:

- Wells & Reservoirs
- Lakes & Rivers
- Water Treatment
- Sewage Treatment



INTRODUCTION

Indumart *LTF120 Series* of Submersible Level Transmitters are two-wire instruments with 316L stainless steel piezoresistive sensors, which can measure the height (pressure) of the liquids in reservoirs. If applied in media other than water, the transmitter may be customized to have an output corresponding to height of the special medium. The transmitter housing can be specified as 316L stainless steel, titanium or Teflon.

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. They are suitable for applications in food processing without any restrictions. Their response time is 1 ms and their enclosures are sealed to IP68 protection class.

The *LTF120 Series* meets the electromagnetic compatibility (EMC) requirements to IEC 61000 and can also have lightning protection for its 4...20 mA output version as an option to IEC 61000-4-5.

Range (mH2O)	Range (kPa)	Over Range (kPa)
0...1	0...10	300
0...1.6	0...16	300
0...2	0...20	300
0...4	0...40	300
0...6	0...60	300
0...10	0...100	300
0...16	0...160	480
0...25	0...250	750
0...40	0...400	1200
0...60	0...600	1800
0...100	0...1000	3000
0...160	0...1600	4800
0...250	0...2500	7500

Other ranges and various pressure units are also available.

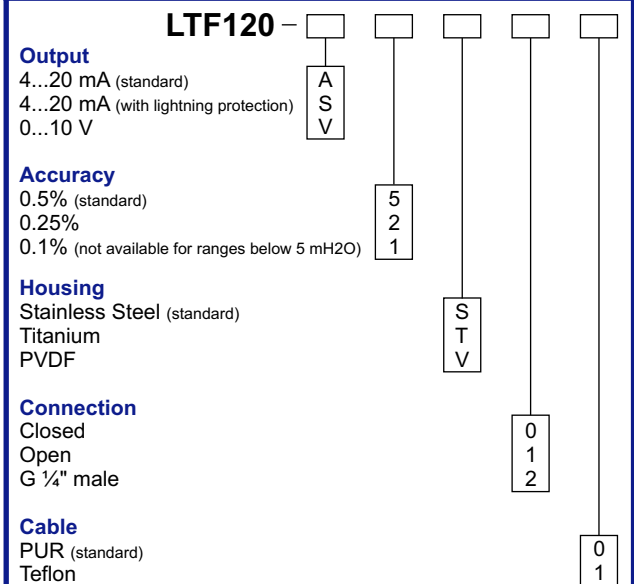
Burst pressure for the above is 20000 kPa. Absolute and compound ranges may be ordered. The transmitter can also be ordered for media other than water.

SPECIFICATIONS

Sensor Type	Piezoresistive element
Sensor Material	316L stainless steel
Housing	SS316L (std.); Teflon or titanium (option)
Press. Connection	Open, closed or G 1/4" male
Seal	FKM
Cable	PUR (std.); Teflon (option)
Accuracy	0.1%, 0.25%, 0.5%
Output	4...20 mA, 2-wire; 0...10 V (option)
Supply Voltage (U_s)	9...33 VDC (mA output); 15...30 VDC (volt output)
Load (Ω)	≤ (U _s -9)/0.02 (mA output); > 10 k (volt output)
Rise Time	1 ms for 10...90% of the range
Operating Temp.	-5...+50°C
Media Temperature	-5...+50°C in the liquid state
Protection	IP68 (submersible)
Vibration	6g (25...2000 Hz)
Shock	50g / 1 ms
EMC Emission	IEC 61000-6-3
Immunity	IEC 61000-6-2
Dimensions	Diameter: 24 mm; Length: 108 mm With lightning protection the length is 157 mm
Weight	220 g (0.5 lb)

Thermal shift (%FS/K)	Ranges are in mH2O			
	Operating Temp.	1...5	>5...20	>20...250
Zero	-5...50°C	0.06	0.03	0.0015
Span	-5...50°C	0.015	0.015	0.015

ORDER CODE



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

