IN-LLT (Rev 1)

Submersible Level Transmitter

Description.

The Intech IN-LLT hydrostatic level transmitter is a fully sealed submersible pressure instrument. It is designed for liquid level measurement. The sensor and electronics are housed within a stainless steel IP68 housing and provide end users with an Industrial 4~20mA loop powered or 0~5Vdc signal. IN-LLT level transmitters are accurate, compact & light weight.

Applications: Pharmaceuticals, metallurgy, electricity, mines, municipal water supply, irrigation and hydrology.

Features.

- Integrated construction, unnecessary to do outer adjustment.
- Sensor housing protection IP68.
- Cost-efficient, high reliability and stability.
- RoHS approved.

Ordering Information.

ITEMS		CODE			DESCRIPTION	
SERIES	IN-LLT-		Hy		Hydrostatic Level Transmitter.	
OUTPUT		C-			4~20mA Output (loop powered).	
OUIFUI		V-			0~5Vdc Output.	
RANGE		1		$0~1 \text{ m H}_2\text{O}$ with 10m Cable.		
		5		$0~5 \text{ m H}_2\text{O}$ with 10m Cable.		
		10		0~10 m H ₂ O with 15m Cable.		
			20		$0\sim 20 \text{ m H}_2\text{O}$ with 30m Cable.	
			50		$0\sim 50 \text{ m H}_2\text{O}$ with 60m Cable.	
			100 0		0~100 m H ₂ O with 110m Cable.	
			150	$0\sim150$ m H ₂ O with 160m Cable.		
			200		$0\sim 200 \text{ m H}_2\text{O}$ with 210m Cable.	

Ordering Example.

IN-LLT-C-20: Submersible Level Transmitter with 4~20mA Output, 0~20m H₂O Range, 30m cable.

We strongly recommend that an overvoltage protection device is used with the IN-LLT if long runs of cable are involved in the installation; to protect against potential Lightning strike or earth potential rises.

Intech Lightning Protection Models: LPN-OVP (Rev 1) DIN Rail mount OVP unit or NAA-102 Terminal Box with filter and integral OVP.

Specifications.

Range (FS): mH ₂ O	1, 2, 5, 10, 20, 50, 100, 150, 200. (See Ordering Information table.)					
Overpressure:	2 times FS.					
Cable	Polyethylene.					
Accuracy:	0.5% FS.					
Stability:	range>20m H ₂ O, 0.2% FS.					
	range<20m H ₂ O, 20mm H ₂ O.					
Thermal drift:		Zero.	Span.			
	range>10m H₂O	0.02% FS/°C	0.05% FS/°C.			
	range>10m H ₂ O	0.05% FS/°C	0.05% FS/°C.			
Application temp. range:	-10~80°C.					
Storage temp. range:	-40~100°C.					
Current Output Model:	4~20mA (2-wire, Loop Powered).					
Power supply (U _T):	12~28Vdc.					
Load (Ω):	<(U _T -12)/0.02.					
Voltage Output Model:	0~5V.					
Power Supply	12~28Vdc.					
Current Draw	<3mA.					

Product Liability. This information describes our products. It does not constitute guaranteed properties and is not intended to affirm the suitability of a product for a particular application. Due to ongoing research and development, designs, specifications, and documentation are subject to change without notification. Regrettably, omissions and exceptions cannot be completely ruled out. No liability will be accepted for errors, omissions or amendments to this specification. Technical data are always specified by their average values and are based on Standard Calibration Units at 25°C, unless otherwise specified. Each product is subject to the 'Conditions of Sale'.

Warning: These products are not designed for use in, and should not be used for patient connected

applications. In any critical installation an independent fail-safe back-up system must always be implemented.



www.intech.co.nz



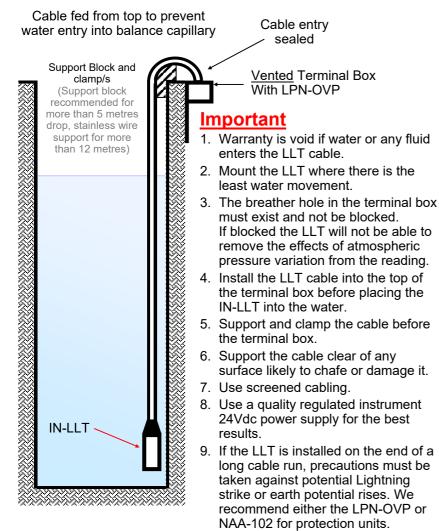
Installation Notes:

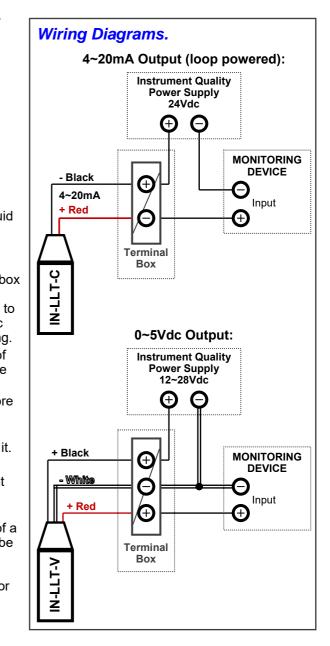
- 1 In the event that IN-LLT units are being used with media other than water please ensure that the seals and cable will not be compromised.
- 2. Two kinds of cable are available: Polyethylene (PE) & Polyurethane (PUR). Polyethylene cable is the stock standard.
- 3. If the IN-LLT is prone to lightning strikes, we strongly recommend the use of the optional LPN-OVP to protect the device.
- $(@4^{\circ}C, g=9.80665 \text{ m/s}^2)$ 4. At standard conditions:

 $1 \text{mH}_2\text{O} = 0.1 \text{kgf/cm}^2 = 9.80665 \text{kPa}.$

5. For special requirements, please feel free to contact us.

Installation Instructions.



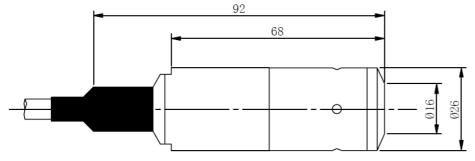


Construction Material.

- Housing: stainless steel 1Cr18Ni9Ti.
- O-ring: Viton.
- Rubber casing: NBR.

- Cable 7.5mm polyethylene cable.
- Diaphragm: stainless steel 316L. •
- Connection box: aluminum-casting (ZL102) (optional).





NAA-102 for protection units.



For more information visit: www.intech.co.nz/products/pressureandlevel/inlltc/IN-LLT-Install.pdf