Product Features

- Measuring range 0 to 300 meter (900 ft) water column
- Accuracy 0.25 % of full scale
- Utilizes Diffused Silicon Sensor
- Multiple pressure ranges and signal outputs available
- Compact all stainless steel probe
- Reliable and compact
- Dirt resistant
- Surge and polarity protection available

Description

Model LHT11 submersible hydrostatic level transmitter is designed for applications where high reliability, long term stability and accuracy are required. It is easy to install and is ideally suited for protecting submersible pumps in deep wells. The level metering is based on the measuring of the pressure difference between the hydrostatic pressure of the liquid head over the diaphragm and the actual atmospheric pressure. This pressure difference is converted into 4-20 mA current in the 2-wire version and 0-5 VDC or 0-10 VDC voltage in the 3-wire version.

The LHT11 consists of a stainless steel measuring cell, transmitter, stainless steel probe and a special breathing cable. Stainless flush diaphragm is protected by use of a stainless protection cap. Easy installation and wiring is ensured by the use of the complete set of accessories. For outdoor measurements the application of over voltage protection is suggested.

To ease installation, the use of terminal box is recommended serving as terminal for the wires and for the breathing tube.

Applications

LHT11 hydrostatic level transmitters are applicable for water-based liquids in deep-wells and are especially recommended for monitoring and controlling submersible pumps. For water-based applications use Polyethylene cable.

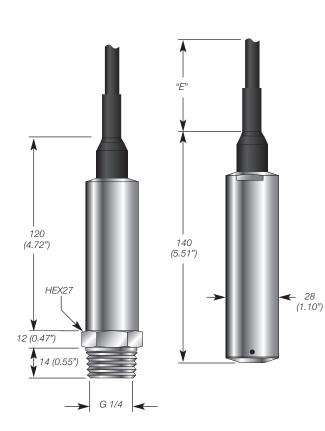
LHT11 can also be used for level measurement of oils, diesel fuels and mild corrosive liquids. For these applications use Polyurathene cable.

- Water deep well monitoring
- Water storage tanks
- Water saving irrigation
- Urban flood control
- Waste water treatment
- For oil, diesel fuel and mild corrosive liquids



Model LHT11 Hydrostatic Level Transmitter

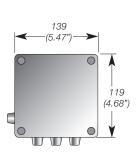
Dimensions



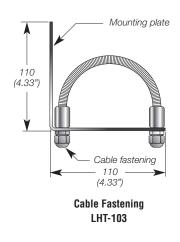
Technical Data

T	'ype	LHT11-current out	LHT11-voltage out
Measuring ra	inge	020	0 m water head
Maximum pressure as the multiplied range		3Х	
Output signa	l	2-wire. 4 20mA	3-wire 05V 3-wire 010V
Power supply	1	1236 VDC	1236 VDC
Maximum load resistance Vs = voltage of power supply		$RL = \frac{(V_{s} - 10)}{0.02 A}$	≥100kOhm
Power consumption			< 6 mA
Accuracy		± 0.25 %F.S, ± 0,50 F.S%	
Temperature coefficient		≤ ±0,1%/10K	≤ ±0.2%/10K
Temperature	range	- 10 °C + 80 °C (14 °F + 176 °F)	
Compensated Temperature		- 10 °C + 70 °C (14 °F + 158 °F)	
Ingress protection		IP 68	
EMC		EMI: EN50081-1/-2; EMS: EN50082-2	
Electric conn	ection	Shielded, breathing cable ø7 mm (ø0.28")	
Cable cross s	section	0.34 mm ²	
Cable length		0300m (0900 ft)	
Dimensions		ø28 x140 mm (1.10 x 5.51)	
Mass		Probe : 0.2 kg, Cable : ~ 0.06 kg/m	
	Diaphragm	1.4404	(Stainless 316L)
Material of	Housing	1.4571	(Stainless 316)
wetted parts	Cable	Polyethyle	ene, Polyurethane
	Gasket	VITC	DN® ¹ (FKM)

Accessories

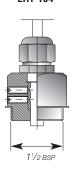


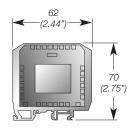
Cable Terminal Box LHT-101/LHT-102





Adapter for waste water LHT-104





Surge Protection SP-110D

Cable Holding Assy LHT-105

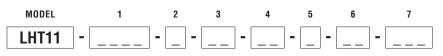
CABLE TERMINAL BOX	LHT-101	
Dimension	139 x 119 x 70 mm	
Ingress protection	IP 65	
Ambient temperature	−40 °C +65 °C	
Material	Polycarbonate	
Conduit	ASM 16 (cable outer diameter. Ø5Ø10 mm)	
Electric connection	Terminal screw (cross section max. 2,5 mm ²)	
CABLE FASTENING	LHT-103 /LHT-105	
Maximum cable length	150 m / 100 m	
Ambient temperature	-10 °C + 45 °C	
Dimension	110 x 110 mm	
ADAPTER	LHT-104	
Dimension	ø21.3 x 56 mm	

CABLE TERMINAL BOX WITH SURGE PROTECTION LHT-102*

General data	Same as with LHT-101	
Electric data	Same as with SP	
SURGE PROTECTION	SP110*	SP110D*
Version	Open air	DIN 35 mm rail mounted
Dimension	72 x 42 x 19 mm	62 x 65 x 18 mm
Ingress protection	IP 54	IP 20
Wire	Cross section max. 2,5 mm ²	
Voltage clipping	33 V	
Pulse power 600 W / 1 ms		00 W / 1 ms
Input resistance	13 ohm	
Leakage current	≤ 10 µA	

* For 4-20 mA loop powered units only

Custom Builder



BOX 1 CODE	Pressure Range
H	WC in Inches (1 in increments) Ex.: H160 = 0 - 160 in WC (max. 999 in)
F	WC in Feet (1 ft increments) Ex.: F060 = 0 - 60 ft WC (max. 900 ft)
M	In Meters (1 m increments) Ex.: M060 = 0 - 60 m WC (max. 300 m)
P	In PSIG (1 PSIG increments) Ex.: P010 = 0 - 10 PSIG range (max. 400 PSIG)

BOX 2 CODE	Pressure Type	
G	Gauge	
BOX 3 CODE	Accuracy F.S.	
C5	± 0.25 % BFSL (0.50 % of span), std.	
C2	± 0.12 % BFSL (0.25 % of span), spc.	

BOX4 CODE	Output
LA	4-20 mA, 2-wire
VA	0-5 Vdc, 3-wire
VD	0-10 Vdc, 3-wire

BOX 5 CODE	Level Transmitter Body Type/Size	
Α	Standard Protection Cap, SS316L	
C	Adapter for Waste Water	
Е	G1/4" male	

BOX6 CODE	Extension Cable Type	
PE	Polyethyelene, 90°C(195°F) max. ambient (water)	
PU	Polyurathene, 90°C(195°F) max. ambient (oils)	

BOX7 Code	Cable Length "E"
M	In Meters (1 m increments) Ex.: M060 = 60 m long (max. 300 m)
F	In feet (1 ft increments) Ex.: F100 = 100 ft long (max. 900 ft)