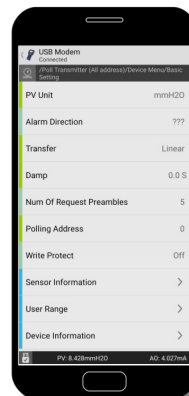


HYDROSTATIC LEVEL TRANSMITTER

AI.HydroLT



INTRODUCTION

AI.HydroLT is a fully sealed submersible level transmitter equipped with IP68 protection. The sensitive element consists of a pressure sensor with piezo-resistive technology. The quality level of AI.HydroLT is high, the measurement is highly stable, reliable and precise. The materials used for the construction make AI.HydroLT, a hydrostatic level transmitter, as well as accurate and reliable, resistant and suitable for heavy-duty applications, especially in the marine environment. It is built with a standard 5m of special PUR cable, suitable for immersion for long periods and compatible with multiple types of liquid. With compact dimensions, the instrument is suitable for a lot of installations. For its connection is enough: a 2-wire power supply, 12-30 VDC with 4-20mA Hart retransmitted signal, 2-wire technique.

FEATURES

- IP68 sensor protection
- Ideal solution for level measurement of liquids in tanks
- Compact execution, does not require external programming
- BC IP65 connection box included
- Sensitive element with high reliability, precision and stability
- Many possibilities of use, suitable for different types of fluids
- Main markets of use: naval, industrial, aqueduct and much more
- Connection via HART Protocol and programmable via Modem + Smartphone App

TECHNICAL SPECIFICATIONS

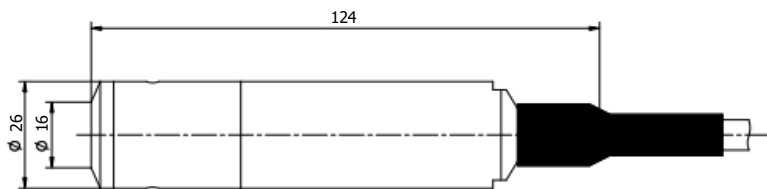
Measurement Range(mH2O)	3.5	7	10	20	35	50
Overpressure (mH2O)	5	10	15	30	50	70

- IP68 protection
- Accuracy: 0,25 % FS
- Stability: $\pm 0.2\%$ FS/year
- Compensation temp.: $-10^{\circ}\text{C} \sim 70^{\circ}\text{C}$
- Operation temp.: $-10 \sim 70^{\circ}\text{C}$
- Storage temp.: $-20 \sim 85^{\circ}\text{C}$
- Supply: 12 \sim 30VDC
- Output: 4 \sim 20mADC (2 wire)/4-20mADC (2 wire) Hart

CONSTRUCTION MATERIALS

- Housing: SS304/SS316L
- O-ring: Viton
- Seal: NBR
- Cable: PUR $\varnothing 7,5$ mm
- Diaphragm: SS316L

DIMENSIONS

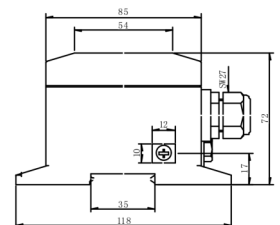
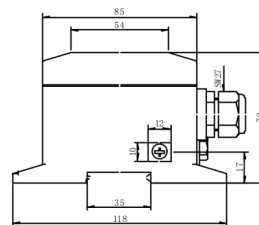


- Top Case Assembly

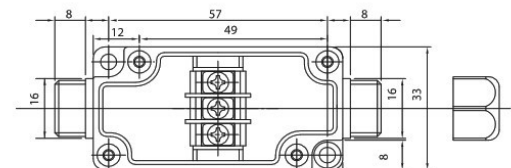
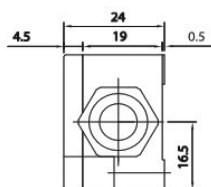
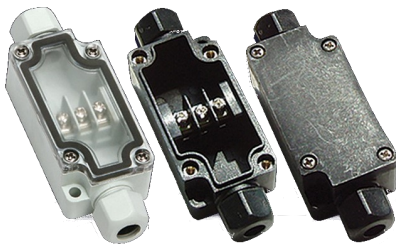
BC - CONNECTION BOX

- IP65 protection
- Material: PBT plastic highly resistant to external humidity and accidental impacts
- Possibility of wall or Omega bar mounting
- Complete with terminal block for connection to the AI.HydroLT level transmitter
- Including cable glands

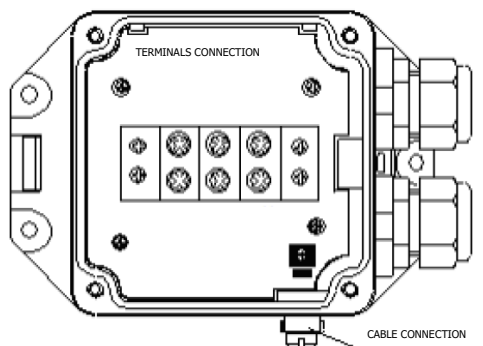
TYPE 1



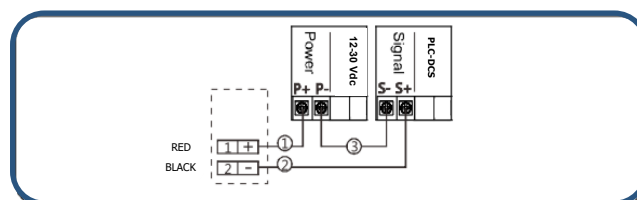
TYPE 2



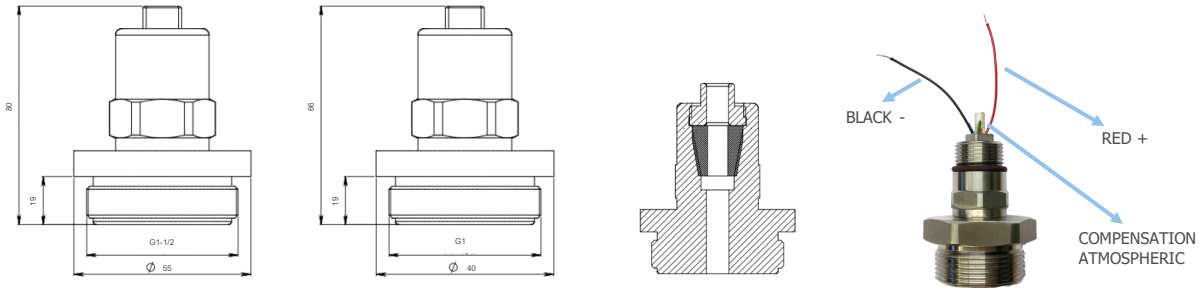
ELECTRICAL CONNECTION




WIRE	CONNECTION
RED	+V
BLACK	0V/+OUT



PROCESS CONNECTION (unit mm)



MARINE TYPE APPROVAL

Register	Description	Country
	RINA Naval, Ships buildings Certificate N. ELE029122CS	International

ORDER CODE

AI.HydroLT	Hydrostatic Level Transmitter		
	Range mH2O		
	0-1/ 0-2/ 0-5/ 0-10/ 0-20/ 0-50		
	Cable Length (PUR Material)		
	1: Standard 5m/ 2: Xm		
	Output		
	mA: 4-20 mADC / mA: 4-20 mADC Hart		
	Material		
	Diaphragm	Pressure Port	Housing
SS	SS316L	SS304	SS304
SL	SS316L	SS316L	SS316L
	Process connection		
	F1: flanged connection 1" ANSI 150rf	F1: DN25/PN16 (specify PN)	
	F2: flanged connection 2" ANSI 150rf	F3: DN50/PN16 (specify PN)	
	F4: flanged connection 3" ANSI 150rf	F5: DN80/PN16 (specify PN)	
	F6: flanged connection 4" ANSI 150rf	F7: DN100/PN16 (specify PN)	
	G0: without threaded connection		
	G: 1"GAS M cable gland in AISI 316 threaded connection adjustable load-bearing cable top case mounting		
	G1: 1 1/2"GAS M cable gland in AISI 316 threaded connection adjustable load-bearing cable top case mounting		
	O: options to be agreed		
	BC - BOX CONNECTION		
	0: no		
	1: type 1		
	2: type 2		

Example order code:

Range *Cable length* *Output* *Material* *options*

AI.HydroLT	0-1mH2O	1: standard 5m	mA	SL	G	F3	1
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Tel.: +39 011 198 218 39 - E-mail: info@asit-ge.com - www.asit-ge.com

Le caratteristiche dichiarate possono cambiare senza alcun preavviso



ASIT ITALIA S.R.L.

Sede operativa e Uffici
Via Quintino Sella, 6

10020 Riva presso Chieri (TO)

T (+39) 011 198 218 39 - F (+39) 011 198 371 06

INFO@ASIT-GE.COM

WWW.ASIT-GE.COM



Company with
Certificate of Quality
System ISO 9001:2015
Cert n°38785/19/S