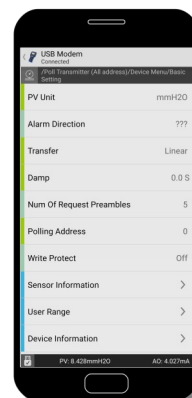


HYDROSTATIC LEVEL TRANSMITTER

AI.Hydro.00



INTRODUCTION

AI.Hydro.00 is made from high-quality silicon piezoresistive sensor.

The piezoresistive sensor is packaged in stainless steel housing.

AI.Hydro.00 is precision engineered to fit most level measurement.

The water-proof cable connects with housing sealed, with vented tube putting in, the transmitter could be used in the water or liquid in a long time. Integrated construction and standard output signal could provide easy operation and good automatic control.

FEATURES

- Measuring ranges from 1mH₂O to 200mH₂O
- Accuracy: +/-0-25%FSO or +/-0.5%FSO
- Calibrated and temperature compensated
- Stainless steel construction
- Piezoresistive pressure sensor design
- Variety of Pressure & Electrical connections
- Output 4..20mA, 0..10V, 0..5V, RS485 and others
- Connection via HART Protocol and programmable via Modem + Smartphone App

APPLICATIONS

- Level measurement
- Hydraulic monitoring in rivers and sea
- Muddy liquid level measurement
- Water treatment
- Water diversion project

TECHNICAL SPECIFICATIONS

STANDARD PRESSURE RANGES

Nominal pressure	gauge	
0...1mH ₂ O	●	
0...2mH ₂ O	●	
0...5mH ₂ O	●	
0...10mH ₂ O	●	
0...15mH ₂ O	●	
0...20mH ₂ O	●	
0...50mH ₂ O	●	
0...80mH ₂ O	●	
0...100mH ₂ O	●	
0...150mH ₂ O	●	
0...200mH ₂ O	●	

PERFORMANCE SPECIFICATIONS

Parameter	Value	Units	Notes
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General

Pressure Range	0-1,...,200	mH ₂ O	
Overpressure	1.5xFS	mH ₂ O	

Environmental

Operating Temperature Range	-20 to +70	°C	-4°F to 158°F
Compensated Temperature Range	0 to +60	°C	32°F to 158°F
Storage Temperature Range	-40 to +125	°C	-40°F to 257°F
Vibration	10	g	20 to 2000Hz
Shock	100	g	10ms
Cycles	10x10 ⁶	cycles	

Electrical @25°C(77°F)

Output Signal	4...20mA	0...5Vdc	0...10Vdc	RS485	4...20mA+HART
Power Supply(Vs)	12....36Vdc	12....36Vdc	15....36Vdc	12....36Vdc	5Vdc
Load Resistance	<(Vs-12)/0.02A (For current output), >10kΩ (For voltage output)				
Insulation Resistance	100MΩ@50Vdc				

Physical Specifications

Media Compatibility	All media compatible with 316L stainless steel				
Housing	304 stainless steel				
Diaphragm	316L stainless steel				
Seal Ring	Viton or NBR				
Oil Filling	Silicone oil				
Protection	IP68				
Net Weight	Approx.225g				

Parameter	Minimum	Typical	Maximum	Units	Notes
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Performance

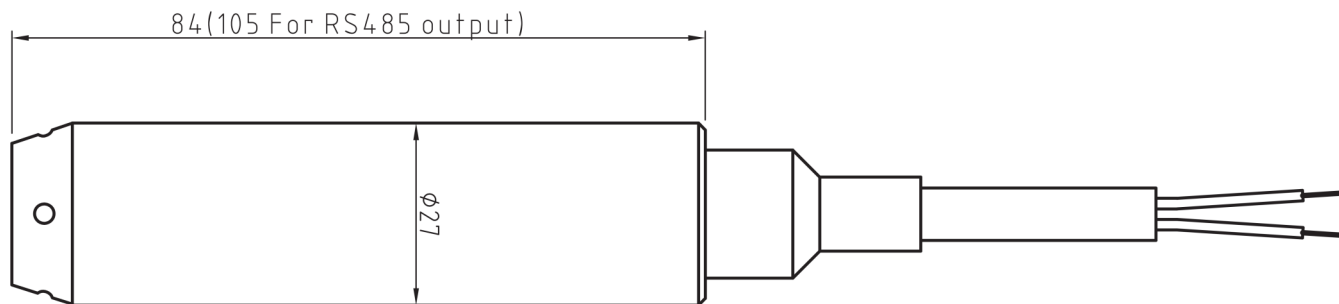
Accuracy	0.1	0.25	0.5	%FSO	1,2
Temp Coeff - Zero		±0.75	±1.5	%FSO	3
Temp Coeff - Span		±0.75	±1.5	%FSO	3
Long-Term Stability		±0.2	±0.3	%FSO/year	1

Notes

1. All values measured at 25°C (77°F)
2. Including non-linearity, hysteresis and repeatability.
3. 0°C to 70°C (32°F to 158°F) with reference to 25°C (77°F).

The listed specifications and dimensions are subject to change without prior notice.

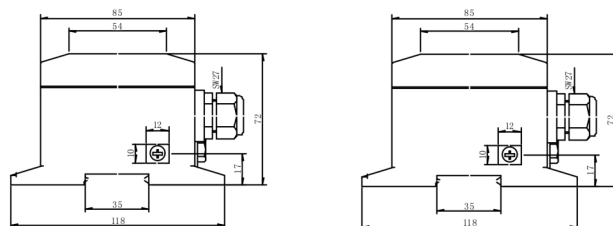
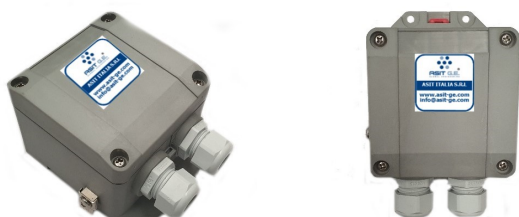
DIMENSIONS



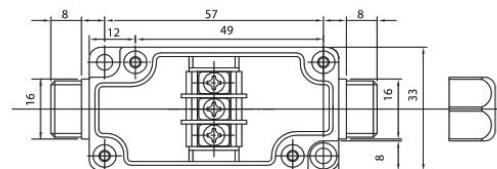
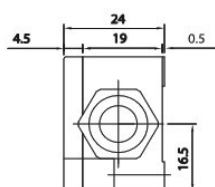
BC - CONNECTION BOX

- 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.Hydro.00 level transmitter
- Including cable glands

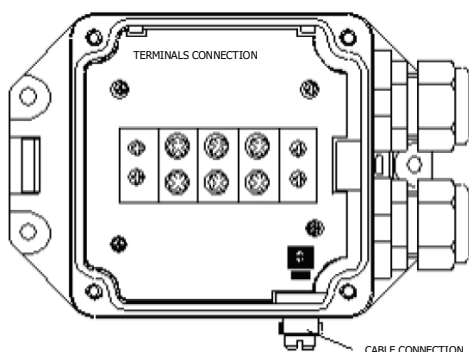
TYPE 1



TYPE 2



ELECTRICAL CONNECTION



Cable outlet



	2-wire(current)	3-wire(voltage)	4-wire(RS485)
Supply+	red	red	red
Signal+	yellow	yellow	yellow
Gnd	-	black	-
RS485A	-	-	green
RS485B	-	-	white

ORDER CODE

AI.Hydro.00	Hydrostatic Level Transmitter			
Range mH2O				
0-1/ 0-2/ 0-5/ 0-10/ 0-20/ 0-50/ 0-80/ 0-100/ 0-150/ 0-200				
Cable Lenght (PE Material)				
1: Standard 5m/ 2: Xm				
Output				
mA H : 4-20 mADC+HART/ R4 : RS485/ R40 : RS485+4..20mA/ V : 0-10V DC/ J : 0-5V DC/ F : 1-5V DC/				
Material				
	Diaphragm	Pressure Port	Housing	
SS	SS316L	SS304	SS304	
Process connection				
F: 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 cable gland				
PG: PG13,5 PA threaded cable gland with lock nut				
G: 1" GAS male cable gland in AISI 316 threaded connection adjustable load-bearing cable top case mounting				
G1: 1 1/2" GAS male cable gland in AISI 316 threaded connection adjustable load-bearing cable mounting box top				
G2: 2" GAS male cable gland in AISI 316 threaded connection adjustable load-bearing cable mounting box top				
O: options to be agreed				
BC - BOX CONNECTION				
1: type 1				
2: type 2				
0: no				

Example order code:

	Range	Cable lenght	Output	Material	Process Connection	Box Connection
AI.Hydro.00	0-1mH2O	1: standard 5m	mA	SS	F3	G

Description Code:

Hydrostatic Level Transmitter Model AI.Hydro.00

0-1mH2O: Range

1: Cable lenght standard 5m

mAH: Output 4-20mADC+HART, 2 wire

SS: Material Diaphragm SS316L, Pressure Port SS304 e Housing SS304

F3: Flanged connection DN50 / PN16 with 1 "GAS female threaded central hole, for mounting threaded connection cable

G: threaded connection adjustable cable 1"

1: Box Connection Type 1



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