ASPT 11s

SUBMERSIBLE LEVEL TRANSMITTER FOR LIQUIDS

Your Engineering Partner

OVERVIEW

ASPT-11s- Submersible Level Transmitter measures static pressure of the liquid proportional to the level depth using high performance piezoresistive silicon chip as the measuring element. The result is converted to standard current or voltage signal output through signal conditioning circuit, establishing the linear corresponding relation between the output signal and liquid depth to complete the measurement of the liquid depth. The product has advantages of high precision and small volume. Submerse it directly into liquid, the height between the end of the transmitter to the liquid level is measured easily. The product has passed long-term aging and stability screening with stable and reliable performance and can be used in harsh outdoor environment.

APPLICATIONS

- Well Level Measurement And Control
- Sea Water Level Measurement & Control
- Sewage Project And Level Application
- Oil And Fuel Tank Level Measuring
- High Temperature Medium Level Application
- Building Monitoring & Control For Water Level.
- Various Liquid Tanks Pressure Or Level Measurement

FEATURES

- ≤ ±0.25% BFSL accuracy
- Pressures from 1 PSI up to 100 PSI
- 316L SS diaphragm / oil filled sensor element
- Removable nose cone

PERFORMANCE

Pressure range	0.5m, 1m, 2m, 5m, 10m, 20m, 50m, 100m, 200m H2O
Overpressure	150%F.S.
Accuracy*	≤ ± 0.25% BFSL, typ.
Stability (1 year)	≤ ±0.25% of FS, typ.
Pressure Range	100PSI Maximum
Over range Protection	150% F.S.

* Accuracy includes: Non-linearity, Hysteresis & Non-repeatability

THERMAL

Temperature	
Operating	-20 to 100°C (-4 to 185°F)
Storage	-40 to 125°C (-40 to 257°F)
Thermal Limits	
Compensated Range	0 to 55°C (30 to 130°F)
TC Zero	≤ ±1.5% of FS
TC Span	≤ ±1.5% of FS

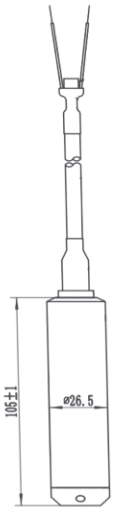
ENVIRONMENTAL

Shock	100G, 11msec, 1/2 sine
Vibration	10G peak, 20 to 20000HZ
EMI/RFI Protection	YES
Rating	IP68
Wetted Material	316L
Weight	200g
Electrical Connection	Cable

ELECTRICAL

Output	1-5V	4-20mA	0-5V
Excitation	10-30VDC	10-30VDC	10-30VDC

DIMENSION



*Dimensions are for reference only

WIRING GUIDE

DIN 43650, FORM A

Output	Red	Green	Yellow
4-20 mA	+V	Signal	
1-5V	+V	GND	Signal
0-5V	+V	GND	Signal

ORDERING GUIDE

ASPT-11s-00100-P-G-1-L-1-Z-05

Model Family
ASPT-11s

Pressure Range
Insert 5-digit pressure code, max 100 psi
(i.e 00100=100 PSI)

Pressure Unit
P= PSI
B= BAR
W= Inches H2O
M= Meter H2O

Pressure Reference
G = Gauge

Process Connection
1 = Nose Cone

Cable Length
01 = 1 meters
05 = 5 meters
10 = 10 meters
20 = 20 meters
30 = 30 meters

Electrical
Z= Conduit w/cable Galnd
(see "Cable Length")

Output
1= 4-20 mA
2= 1-5V
3= 0.5V

Wetted Material
L= 316L SS

INSTALLATION TIPS

- When measuring the level of stationary fluid in an open container, place the level transmitter vertically into the bottom of the container and secure the cable connecting the transmitter to the junction box at the opening of the container.
- When the medium viscosity is relatively large (such as sewage pool), casing or bracket can be installed to ensure that the transmitter can be put into the bottom of the container.
- When doing an open-air installation, the terminal box of the transmitter should be placed in a ventilated and dry place to avoid direct exposure to light and rain, which may cause the shell temperature to be too high or water to get inside and damage the internal circuit board.

Due to continuous development of our products technical informations are subject to change.
*Contact factory for custom configurations not shown

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