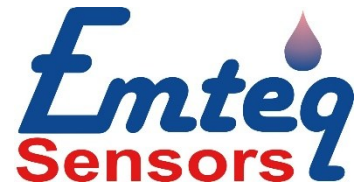


SPT21WS1 Submersible Level Sensor

For Corrosive Chemical Applications



SPT21WS1 is a fully sealed submersible level transmitter with special material for corrosive applications. It is made by building in a very stable and reliable ceramic capacitive pressure sensor and high precision circuit board into the PTFE housing. Integrated construction and standard signals provide the user with an easy and convenient installation. The special cable connection into the housing enables immersion into the media for a long time. SPT21WS1 level transmitter is suitable for level measurement of corrosive liquid, with low measurement range applications



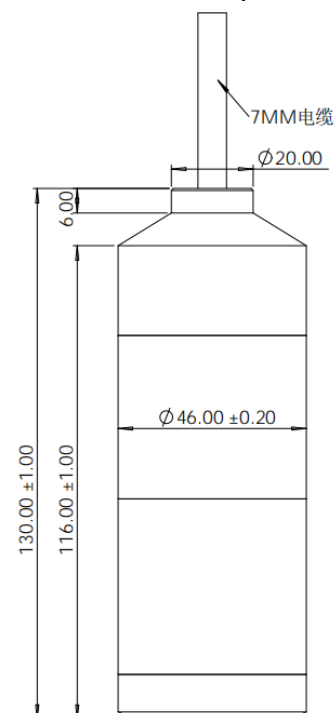
Features

- Integrated construction, with simple installation
- Special corrosion resistant material
- Sensor housing protection IP68
- High reliability and stability
- Low ranges available

Specification

Range	0~1...5mH2O
Over pressure	2 times FS
Accuracy	±0.5% FS
Output Signal	4~20mA, 0~5V, 0~10Vdc RS485
Stability	±0.2%FS/year
Thermal drift	0.05%FS/°C (offset) 0.05%FS/°C (span)
Application temp.	-10~80°C
Storage temp.	-40~120°C
Housing protection	IP68

Outline Dimension (unit : mm)



Output Signals

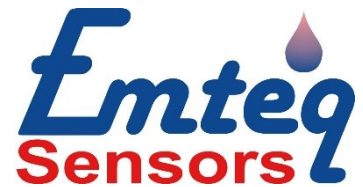
2-wire current	4~20mA
3-wire current	4~20mA (default)
	0~20mA
3-wire voltage	DC 0~10V
	DC 0~5V
	DC 1~5V
	DC 0.5~4.5V
	DC 0.5~2.5V
	DC 0.1~2.1V
3-wire proportional voltage	DC 0.5~4.5V
RS485	

Load Resistance (Ω)

Current output	≤ (power supply-11V) / 0.02A
Voltage output	≥10k
Housing Material	PTFE
Diaphragm	Ceramic
O-ring	FKM
Cable	φ7.5 mm Teflon shielded cable or customized cable

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Power Supply

Output signals	Power supply	
	Default	Optional
4~20mA	DC 11~28V	DC 8~32V
DC 0~10V	DC 11~28V	DC 11~32V
DC 0~5V	DC 11~28V	DC 11~32V
DC 1~5V	DC 11~28V	DC 11~32V
DC 0.5~4.5V	DC 5V±0.1V	DC 8~32V
DC 0.5~2.5V	DC 5V±0.1V	DC 8~32V, DC3.3V
DC 0.1~2.1V	DC 5V±0.1V	DC 8~32V, DC3.3V
DC 0.5~4.5V (proportional output)	DC 5V±0.5V	/
RS485	DC 11~28V	DC 5V±0.1V

Order Guide

SPT21WS1	Anti-corrosive Level Transmitter		
	Range	0~1...5mH ₂ O	
	[0~XmH ₂ O] L	X: actual measurement range L: cable length suggested L-X= (1~2)m	
		Code	Output signal
		E	4~20mADC
		J	0~5VDC
		V	0~10VDC
		R	RS485 interface
SPT21WS1	[0~1mH ₂ O]L	E	the whole spec

Note: The default cable length is 5m, please specify if extra cable length is needed.

Order Note

1. Please ensure the medium is compatible with the wetted parts
2. Please state the density of the media (if different to water).
3. When the product is used in storm areas, we suggest the user to use a device to protect the product from power spikes.