



PRODUCT OVERVIEW

LEVEL MEASUREMENT

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Submersible Pressure Level Sensor L70 Series

Profile

L70 series submersible level transducer/transmitter is made by built-in highly stable and reliable OEM piezo-resistive pressure sensor and highly accurate circuit board into the stainless steel housing. Integrated construction and standard signal provide the user the easy and convenient application in the local working place. The special cable connected with housing, can be immersed into the media for a long time.

It is designed for various applications, including water, seawater, sewage, river water, fuel, oil and so on. We provide OEM service to meet different requirements and demands.



Characteristics

- ☆ Accuracy: $\leq \pm 0.5\% \text{F.S.}$
- ☆ Wide working temperature scope.
- ☆ Advanced digital temperature compensation.
- ☆ Excellent resistance against impact, overload, shock and erosion.
- ☆ Highly-efficient lighting protection and strong RFI & EMI resistance.
- ☆ Impact resistance and disturbance.
- ☆ 1.5 times range standard overload.
- ☆ 3 times range burst pressure .
- ☆ CE approving.

Applications

- ★ Industrial course testing and control
- ★ Automatic testing and detection systems
- ★ well level measurement and control
- ★ Sea water level measurement and control
- ★ Sewage project and level application
- ★ Laboratory equipment
- ★ Oil and Fuel Tank level measuring
- ★ High temperature medium level application.
- ★ Building monitoring and control for water level
- ★ Various liquid tanks pressure or level measurement
- ★ And so on...

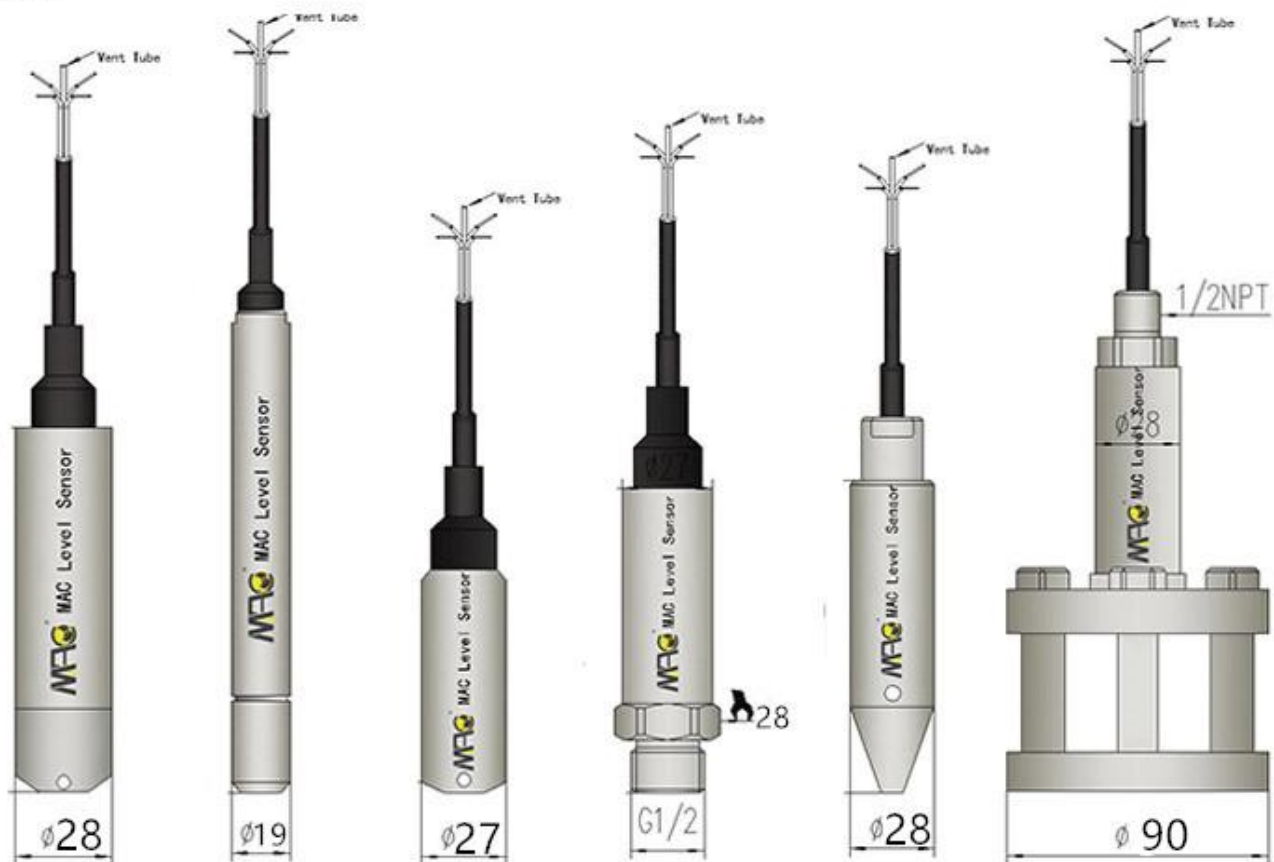
Specifications

| Model | L70 | | | | | |
|--------------------|--|--------------|----------|-----------|----------|---------------------|
| Parameter | | | | | | |
| Level Range | 0-1...500m H2O (Special by customized) | | | | | |
| Electrical Wire | 2 Wires | 3 Wires | | | | 4 wires |
| Output | 4~20mA | 1~5V 0~5V | 0~10 V | 0.5~4.5 V | SDI-12 | RS485 Modbus RTU |
| Power Supply | 12~36Vdc | 10~36Vdc | 15~36Vdc | 5Vdc | 10~30Vdc | 10~30Vdc |
| Working Temp. | -30℃~70℃ or -30℃~100℃(Customized) | | | | | |
| Accuracy | ≤ ±0.5%F.S, ≤ ±0.25%F.S(by customized) | | | | | |
| Ingress Protection | IP68 | | | | | |

Dimension

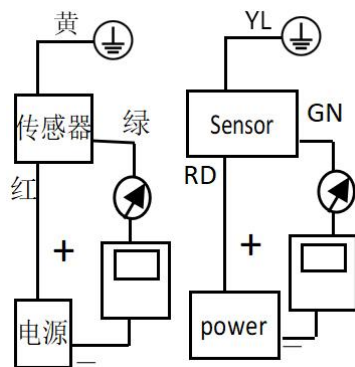
L70

L70 series

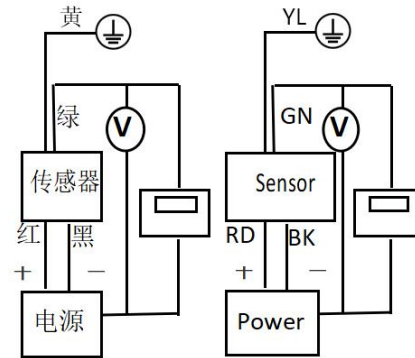


Electrical Connections

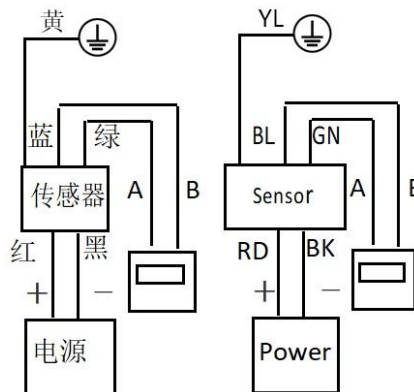
Electrical Connections



Current output, 2-wire



Voltage output, 3-wire



RS485 output

Part Number Code Table For Pressure Range

| | | | | | | | |
|-----|-------|-----|-------|-----|------|-----|------------|
| 000 | 0-1.0 | 009 | 0-1.9 | 018 | 0-8 | 027 | 0-50 |
| 001 | 0-1.1 | 010 | 0-2.0 | 019 | 0-10 | 028 | 0-60 |
| 002 | 0-1.2 | 011 | 0-2.1 | 020 | 0-12 | 029 | 0-80 |
| 003 | 0-1.3 | 012 | 0-2.5 | 021 | 0-15 | 030 | 0-100 |
| 004 | 0-1.4 | 013 | 0-3 | 022 | 0-20 | X | Customized |
| 005 | 0-1.5 | 014 | 0-4 | 023 | 0-25 | | |
| 006 | 0-1.6 | 015 | 0-5 | 024 | 0-30 | | |
| 007 | 0-1.7 | 016 | 0-6 | 025 | 0-35 | | |
| 008 | 0-1.8 | 017 | 0-7 | 026 | 0-40 | | |

Order Information

| P/N Selection | L70 (Model) | 010 | E5 | S37 | H | 1 | 1 | G | N |
|------------------------|---|-----|----|-----|---|---|---|---|---|
| Range | Refer to <i>PART NUMBER CODE TABLE FOR RESSURE RANGE</i> on previous page and select your requested range code here. | | | | | | | | |
| Output | E5=4-20mA(2 wires) E6=0-5V(3 wires) E7=0-10V(3 wires) E8=0.5-4.5V ratiometric (by customized, 3 wires) E21=0.5-4.5V non-ratiometric (by default, 3 wires) E0=1-5V(3 wires) E16=SDI-12 E11=RS485(MODBUS) X= By Customized | | | | | | | | |
| Power Supply | S6=5Vdc S37=12-36Vdc S44=15-36Vdc S17=10-30Vdc S51=10-36Vdc X= By Customized | | | | | | | | |
| Pressure & Level Units | B=Bar P=PSI H=H ₂ O F=m Fuel | | | | | | | | |
| Accuracy | 1=0.5%F.S 2=0.25%F.S (by customized) | | | | | | | | |
| Cable Length | 1=Cable 1m 2=Cable 2m 3=Cable 3m X=Cable x m | | | | | | | | |
| Pressure Type | G=Gauge Pressure A=Absolute Pressure S=Sealed Pressure | | | | | | | | |

Others Function (Optional)

N= Standard Type (with short filter) TF=With Tapered Filter Covers
M1=G 1/4" male thread mounting type NM=Nylon materials filter
TA=Titanium alloy materials (high cost!)
P=All Plastic Housing Structure