

## MD-L100 HIGH-PERFORMANCE INPUT LEVEL SENSOR

### TECHNICAL CHARACTERISTICS:

- ✓ Anti-surge voltage, overvoltage, overcurrent and reverse polarity protection
- ✓ Anti-overload, impact resistance test, rigorously verify its overload capacity
- ✓ Set up anti-electromagnetic interference processing in complex working conditions of electromagnetic environment to ensure signal stability
- ✓ All sensitive chips adopt imported OEM components to ensure long-term stability
- ✓ 12~28V power supply



The MD-L100 level sensor measures liquid level or water depth based on the principle of hydrostatics, adopts high-performance isolation sensitive elements, and uses sophisticated temperature compensation technology and water sealing technology to convert static pressure into electrical signals, standard electrical signal.

Liquid level sensors are used for water level measurement in reservoirs, rivers, sewage treatment, urban water supply, etc. This series of products also include liquid level sensors designed for more special conditions such as geothermal, minefields, oil tanks, etc.

### APPLICATION:

- ◇ Civil pool
- ◇ Water tank level measurement
- ◇ Hydrology and water conservancy system
- ◇ Other liquid level measurement
- ◇ Marine level measurement
- ◇ Locomotive oil truck oil level measurement
- ◇ Urban drainage system, River and lake detection system

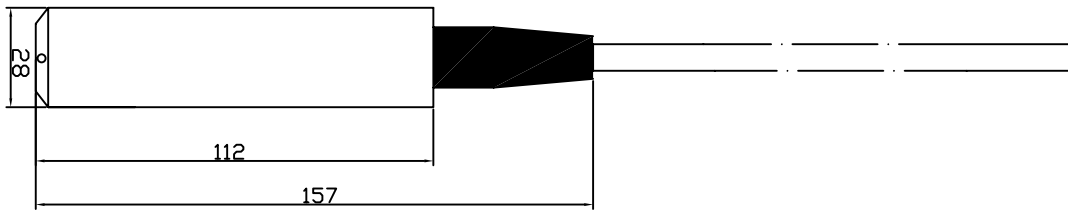
### SPECIFICATION:

|                               |  |
|-------------------------------|--|
| Range                         | 0~1m...100mH <sub>2</sub> O                                |
| Overload pressure             | 200%   |
| Optional                      | 2088 Industrial shell                                      |
| Transmission distance         | ≥ 1Km( power: 24V)   |
| Accuracy                      | 0.5%FS, 0.25%FS  |
| Long-term stability           | Typical: ± 0.1%FS/year                                     |
| Zero temperature drift        | Typical: ± 0.02%FS/°C, Max: ± 0.05%FS/°C                   |
| Sensitivity temperature drift | ± 0.02%FS/°C, Max: ± 0.05%FS/°C                            |
| Power supply                  | 12~28V   |
| Output                        | 4~20mA/0~10V/0~5V/RS485                                    |
| Working temperature           | 0~80°C   |
| Compensation temperature      | 0~70 °C  |
| Storage temperature           | -40~100 °C   |
| Electrical protection         | Anti-reverse connection protection, overvoltage protection |
| IP rate                       | IP 68  |
| Measuring medium              | Water or liquid incompatible with stainless steel          |
| Pressure connection           | Input type   |
| Shell materials               | 304SS or 316SS   |



**DIMENSION:**

UNIT:mm


**SELECTION GUIDE:**

| MD  | L100 | 1M | 1 | A | P2 | E | T1  |
|---|------|----|---|---|----|---|---|
| <b>MODEL:</b><br>L100   |      |    |   |   |    |   | <b>Measurement temperature:</b><br>T1(0~+80°C)            |
| <b>RANGE:</b><br>X M(0-X m)   |      |    |   |   |    |   | <b>Electric connection:</b><br>E(Waterproof sealed cable) |
| <b>ACCURACY:</b><br>1(0.5% FS) 2(0.25%FS)                               |      |    |   |   |    |   | <b>Power supply:</b><br>P0(3.6VDC)<br>P2(24VDC)           |
| <b>OUTPUT:</b><br>A(4-20mA) V1(0-10V)<br>R(RS485) V2(0-5V) V4(0.5-2.5V) |      |    |   |   |    |   |   |

