

LT10SR-214 Submersible Level Transmitter

Introduction

LT10SR-214 is a $\Phi 17$ mm diameter fully sealed submersible level transmitter based on diffused-silicone principle. It consists of a high stable and reliable piezoresistive pressure sensing element and the special PCB component as well as the stainless steel housing. Its integrated construction and standardized signal output greatly facilitate the operation and automation control at work sites. The special vented cable being hermetically connected with the transmitter housing allows the transmitter for long term use in the liquids that are compatible with the transmitter construction material.

LT10SR-214 Level Transmitter is with compact size, light weight and good long term stability. It is suitable for liquid level measurement and control for fields of medicine, metallurgy, power plants, mining, urban water supply and drainage, hydrology exploration etc.



Features

- Integrated structure and adjustment free;
- IP68 Protection (sensor housing), and IP65 for connection box casing;
- Cost-effective, reliable and high long-term stability;
- Compact size: $\Phi 17$ diameter.

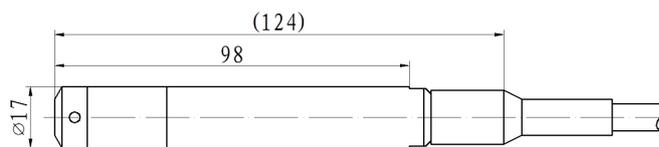
Specification

| | | |
|-------------------|---|--|
| Pressure Range | 10m, 20m, 50m, 100m, 200m H ₂ O | |
| Overpressure | 1.5 times FS | |
| Accuracy | $\pm 0.5\%$ FS | |
| Stability error | Range>20mH ₂ O, $\pm 0.2\%$ FS/year; Range \leq 20mH ₂ O, 20mmH ₂ O | |
| Temperature error | $\pm 0.02\%$ FS/ $^{\circ}$ C (Zero) $\pm 0.05\%$ FS/ $^{\circ}$ C (Span) | |
| Operation temp. | -10 $^{\circ}$ C ~70 $^{\circ}$ C | |
| Storage Temp. | -20 $^{\circ}$ C ~85 $^{\circ}$ C | |
| Power Supply | 11V~28V DC | |
| Output Signal | 4mA~20mA DC (2-wire) | |
| Load (Ω) | < (U-11)/0.02 | |
| Protection | IP68 (sensor part) IP65 (connection box) | |
| Wetted material | Housing: stainless steel 304 | Sealing O-ring: Viton |
| | Diaphragm: SS 316L | Cable: $\Phi 7.5$ mm PE cable with vented tube |
| | Cap: Black nylon | Rubber casing: Chloroprene Rubber |

Electrical Connection

| Wire Color | Electrical definition |
|------------|-----------------------|
| Black | +V |
| Red | 0V/+OUT |

Outline Construction (Unit: mm)



Order Guide

| LT10SR-214 | | Level Transmitter | | | |
|------------|---------------------------|--|---------------|----------------|----------------|
| | Range | 0m~10m...200m H ₂ O | | | |
| | [0~XmH ₂ O]L | X: actual measured range L: cable length; suggested L-X=(1~2)m | | | |
| | Code | Output Signal | | | |
| | E | 4mA~20mA DC | | | |
| | Code | Construction Material | | | |
| | | Diaphragm | Pressure port | Housing | |
| | 22 | SS 316L | SS | SS | |
| | 24 | SS 316L | SS 316L | SS 316L | |
| | 25 | Tantalum | SS | SS | |
| | Code | Others | | | |
| | M ₁ | 0%~100% hand pointer indicator | | | |
| | Y _b | Aluminum connection box without display | | | |
| | Y _c | MS200 water-proof connection box (Recommended options) | | | |
| | Y _d | PD140 lightning-proof protection device | | | |
| | Y _e | connection box(with display or without display) | | | |
| | F ₁ | Fixed flange | | | |
| LT10SR-214 | [0~10mH ₂ O]12 | E | 22 | Y _c | the whole spec |

Notes

1. Please be sure the measured media is compatible with contacting material; please note the media density in the measurement (except water);
2. If the product is installed in the thunderstorm area, we suggest to install the lightning-proof protection device to protect the transmitter. Please be sure good grounding as well;
3. If the user has special requirement, please feel free to contact our company.