

2000424 Submersible Level Transmitter



- ✓ Measure water depth from 0-5 Meter or 16.4 Feet (Customization is available)
- ✓ Housing material: 304 stainless steel
- ✓ Cable material: Polyethylene (Customization is available for PTFE)
- ✓ 4-20mA or 0.5V – 4.5V linear output
- ✓ Sensor accuracy $\pm 0.5\%$ FS/year, stability: $\pm 0.25\%$ FS/year
- ✓ Calibrated for water depth
- ✓ Protection class: IP68
- ✓ Compatible with many Dataq Instruments hardware products including DI-2108, DI-2108-P, DI-4108, DI-4208, DI-4718B (with appropriate excitation supply), and DI-2008/808.

Introduction

The 2000424 water level transmitter uses a high-performance diffused silicon pressure sensor as the measuring element. This sensor offers high reliability, accuracy, and a compact design. It is widely used for measuring liquid pressure and height in small-diameter pumps, as well as the liquid level in reservoirs such as those containing water, oil, or mildly corrosive liquids. The transmitter features a vented tube cable that connects to the sealed housing, ensuring the sensor remains exposed to the atmosphere for precise measurement.

Features

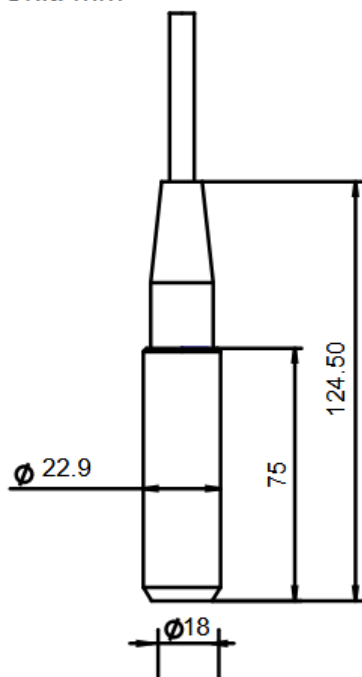
- Wide range of applications
- Utilizes a highly reliable and stable oil-filled diffused silicon sensor
- Fully sealed stainless steel construction
- IP68 protection rating
- High precision, excellent frequency response, and long-term stability

Specifications

- Pressure range: 0-1M- 200M H₂O
- Max overload: 150% of sensor range
- Burst pressure: 300% of sensor range
- Output: 0.5-4.5V, 4-20mA
- Power supply: 5V, 12-30V
- Accuracy: 0.5%FS/year
- Stability: 0.25%FS/year
- Housing material: Stainless steel 304
- Cable material: Polyethylene, PTFE
- Ambient Temperature: -20~85°C
- Process temperature: -20~85°C
- Compensation temperature: -20~85°C
- EMC Standard Electromagnetic Radiation: EN50081-1/-2
- Electromagnetic susceptibility: EN50082-2
- Protection class: IP68
- Cable diameter: 1.4mm/wire, 7.4mm for outside diameter
- Insulation resistance: 50M Ω
- Polarity Protection in the Electronic Circuit: Yes

Dimensions

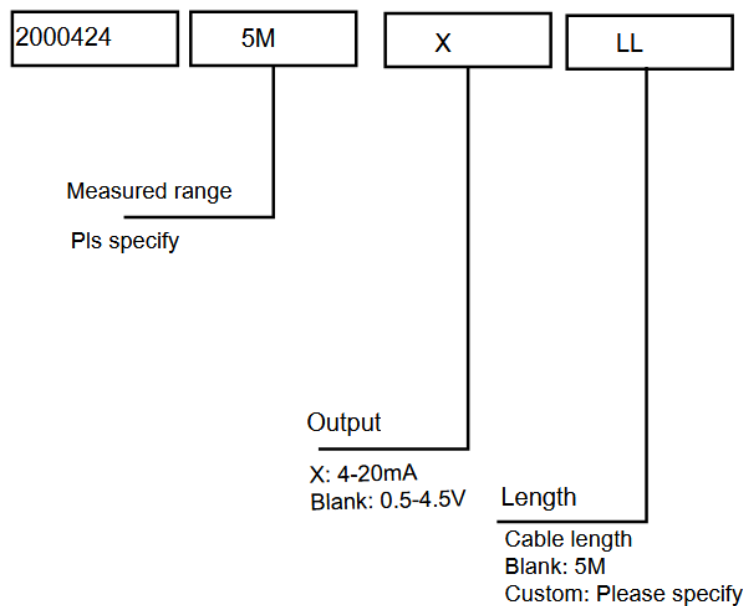
Unit: mm



Wire Connection

Output Type	Wiring		
4-20 mA	Red +	Blue -	
Volts	Red +	Blue -	Yellow Signal

Ordering Code



Compatible with many DATAQ Instruments Hardware Products:

- DI-2108: <https://www.dataq.com/products/di-2108/>
- DI-2108-P: <https://dataq.com/products/di-2108-p/>
- DI-4108: <https://www.dataq.com/products/di-4108-e/>
- DI-4208: <https://www.dataq.com/products/di-4208-e/>
- DI-4718B (with 8B modules): <https://www.dataq.com/products/di-4718b/>
- DI-2008 (with 15V to 5V DC2DC): <https://www.dataq.com/products/di-2008/>
- DI-808 (with 15V to 5V DC2DC): <https://www.dataq.com/products/di-808/>