

Submersible Hydrostatic Liquid Level Transmitter (MI-SUB Series)

IP68 Stainless Steel Hydrostatic Pressure Level Sensor with Vented Polyurethane Cable

Product Overview

Misensor MI-SUB Submersible Liquid Level Transmitter measures hydrostatic pressure at the bottom of a tank or well using a high-sensitivity piezoresistive silicon core housed in a SUS316L stainless steel probe. An atmospheric vent tube inside the rugged cable automatically compensates for barometric pressure changes.

Key Features

- Measuring range: 0-20 kPaG (0-2m H2O) up to 0-100m...
- High accuracy: $\pm 0.5\%$ FS (-10°C to +70°C temperatur...
- Ratiometric 0.5-4.5V DC (5V supply), 0-5V, or 4-20...
- IP68 continuous immersion protection with clogged-...
- Over-voltage (16V DC) and reverse-polarity (-14V D...

Typical Applications

- Deep wells, reservoirs, rivers & groundwater level...
- Automotive & off-highway vehicle water/urea/fuel t...
- Industrial wastewater sumps, fire-fighting tanks &...

Technical Specifications & Model Selection

Parameter	Specification	Test Condition / Notes
Measuring Range	0-20 kPaG (Standard) / 0-50 kPaG / Custom	Hydrostatic gauge pressure
Overload / Burst Pressure	60 kPaG (Overload) / 100 kPaG (Burst)	No permanent zero shift
Supply Voltage	5.0V $\pm$ 0.1V DC (or 9-36V DC for 4-20mA)	Reverse polarity protected to -14V DC
Output Signal	0.5-4.5V DC Ratiometric (or 4-20mA / RS485)	Load resistance $\geq$ 10 kOhm
Accuracy	$\pm 1.0\%$ FS (-10°C to +70°C), $\pm 2.0\%$ FS (-30°C to ..	Includes linearity, hysteresis & repeatability
Response Time (t90)	$\leq$ 2.0 ms	Fast dynamic tracking
Insulation Resistance	$\geq$ 100 MOhm @ 500V DC	Between housing and leads
Ingress Protection	IP68 (Probe), IP66 (Connector)	SUS304/316L housing + PU vented cable