

NMT MAGNETOSTRICTIVE LEVEL METER



Flow
Pressure
Level
Temperature
measurement
monitoring
control



- **Measuring Length: 12 to 98 inches**
- **Accuracy: ± 0.04 "**
- **Pressure: Max. 145 PSIG**
- **Temperature: Max. 176°F**
- **Connection: 2" NPT Male Thread**
- **Material: Stainless Steel**
- **Analog Output: 4-20 mA**
- **Long Service Life**
- **Vibration Resistant**

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Model:
NMT

Features

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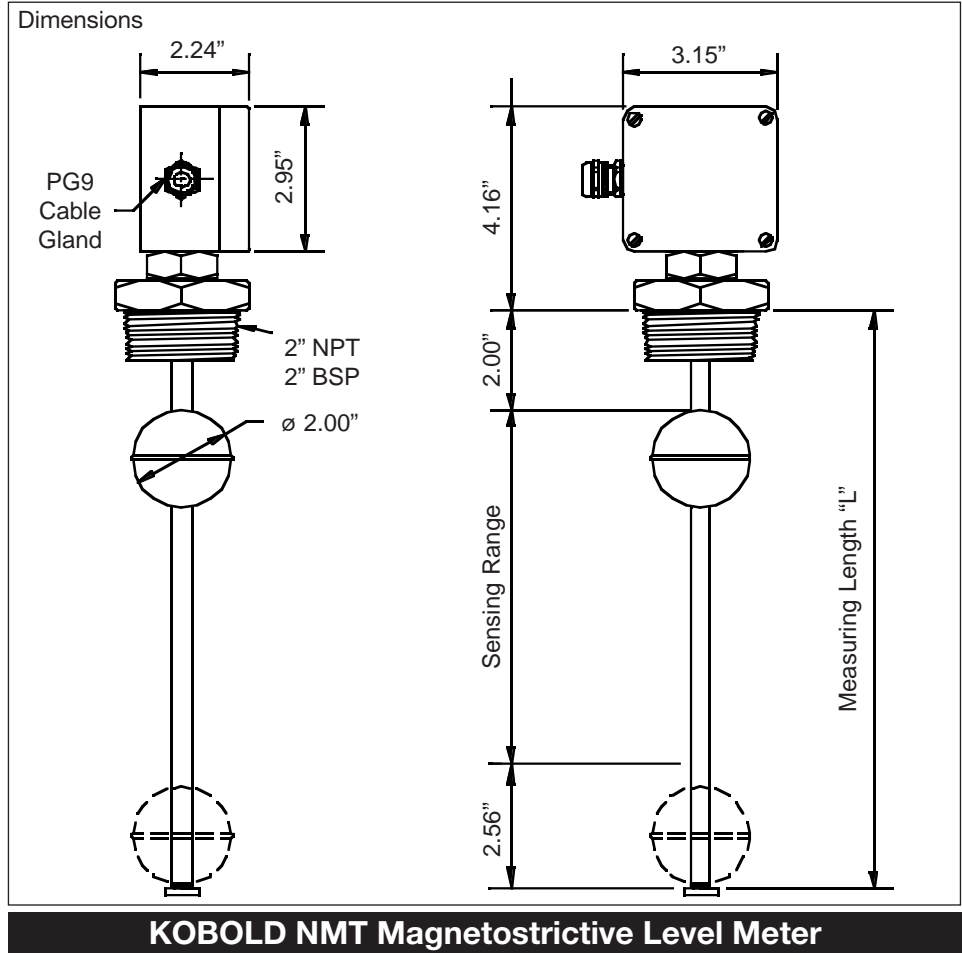
The KOBOLD NMT level meter is a highly accurate float-controlled sensor for continuous sensing of levels. The instrument is comprised of two parts:

- A magnetostrictive sensor in the measuring tube
- An integral, four-wire transmitter with the connection box

KOBOLD NMT uses the principle of echo time measurement. A magnetostrictive wire is tensioned in the measuring tube. Current pulses are transmitted through the wire and generate an annular magnetic field around the wire. The wire is then magnetized axially by magnets fitted internally to the float. When the magnetic fields align, a torsional impulse is generated which propagates with ultrasonic speed in both directions. The distance from the float magnet to the predefined zero-point is measured by an echo time measurement. The integrated electronics then convert the time signal to a standard 4-20 mA analog signal. The magnetostrictive technique yields a measurement with very high accuracy and resolution.

Specifications

- Accuracy:** ±0.04"
- Minimum Liquid S.G.:** 0.8
- Operating Pressure:** 145 PSIG Max.
- Operating Temperature:** -10 to 176°F
- Measuring Length:** 12 to 98 inches (specify when ordering)
- Fitting:** 2" NPT
- Wetted Materials**
 - Stem/Fitting:** 316-Ti Stainless
 - Float:** 1.4701 Stainless
- Stainless**
- Supply Voltage:** 24 VDC ± 20%
- Output:** 4-20 mA, 4-wire, 500Ω Max. Load
- Electrical Connection:** Cable gland PG9
- Electrical Protection:** NEMA 4/IP65



KOBOLD NMT Magnetostrictive Level Meter



Order Details (Example: NMT-1201 N50 L= 36 inches)

| Description | Type | Fitting |
|---|----------|--------------|
| Liquid specific gravity 1.0 or above | NMT-1201 | N50 = 2" NPT |
| Liquid specific gravity 0.8 to 0.99 | NMT-1208 | R50 = 2" BSP |
| Specify measuring length "L" when ordering. | | |