

Magnetostrictive Level Meters

for Liquids





- Measuring length: 300 to 4000 mm
- Accuracy: ±1 mm
- Pressure: max. PN 10
- Temperature:-20°C ... +70°C
- Connection:G 2 male thread, 2 NPT
- Material: stainless steel
- Analogue output: 4 20 mA
- Free of wear and tear
- Insensitive to impact and vibrations



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Description

The Kobold level meter NMT is a very accurate float-controlled sensor for continuous sensing of levels.

The instrument comprises two parts:

- Magnetostrictive sensor in the measuring tube
- Four-wire transmitter in the connection box

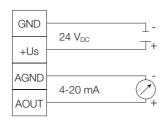
Function Principle

The principle of measurement is based on echo time measurement. A magnetostrictive wire is tensioned in the measuring tube. Current pulses are transmitted through the wire thus generating an annular magnetic field around the wire. The wire is also magnetized axially by magnets fitted in the float. Due to the superposition of both magnetic fields, a torsional impulse is generated in the vicinity of the float magnet, which propagates with ultrasonic speed in both directions. The distance from the float magnet to a defined zero-point is measured by an echo time measurement. The integrated electronics transforms the signal to a standardized analogue signal.

Applications

- Chemical industry
- Power stations
- Pharmaceuticals industry
- Process industry
- Tank farms

Electrical connection



Order Details (Example: NMT-1201 R50)

Description	Model	Connection
Transducer Measuring tube st. steel Density 1.0 kg/dm³	NMT-1201	R50 =G 2 N50 =2 NPT
Transducer Measuring tube st. steel Density 0.7 kg/dm ³	NMT-1208	

Please specify Measuring length or length of measuring tube in writing. Length of measuring tube = measuring length + 114 mm (non-active zone)

Technical Details

Accuracy: +1 mm

Measuring length: 300 to 4000 mm

Length of measuring tube: measuring length + 114 mm

Overall length: see Dimensions Standard densitiy: 1.0 kg/dm³ Special density: 0.7 kg/dm³ Operating temperature: -20 to +70°C

Max. operating pressure: PN 10

Connection / meas. tube: stainless steel 1.4571

Float: st. st. 1.4501 (density 1.0 kg/dm³)

st. st. 1.4571 (density 0.7 kg/dm³)

Connection box: aluminium

G 2 male or 2 NPT Process connection: Electrical connection: terminal block in the connection box

4 - 20 mA 4-wire Analogue output:

500 O Load:

Power supply: $24 V_{DC} \pm 20 \%$, max. 150 mA

Power consumption: max. 150 mA

Protection: IP 65

Dimensions

