



## OTT-KL-010 SERIES CONTACT GAUGES FOR MEASUREMENTS OF DEPTH TO WATER, TEMPERATURE AND CONDUCTIVITY



### Contact Gauges for measurements of depth to water, temp. & conductivity

Contact Gauges are essential for manual measurements of depth to water, temperature, & conductivity in groundwater. The drum is held by a stable frame and is easy to carry. It is very smooth, so that you can effortlessly drain and haul the probe.

#### OTT-KL-010

The OTT-KL-010 Contact Gauge measures the distance to water. Once the probe touches the water surface, you get a signal and you can see the distance to water.

For depths of 15 ... 750 m

#### OTT-KL-010-TM

In addition to the OTT-KL-010 the OTT-KL-010-TM comes with a temperature sensor and display for displaying the water temperature. Also suitable for depth profile measurement.

For depths of 25 ... 500 m

#### OTT-KL-010-TCM

With conductivity sensor and display for the output values temperature, conductivity and TDS (Total Dissolved Solids). Also for creating temperature and conductivity profiles.

For depths of 30 ... 500 m.

- Measurement range - Measuring tape lengths KL-010: 15 ... 750 m; KL-010-TM: 25 ... 500 m; KL-010-TCM 30 ... 500 m
- Application - Groundwater

### Advantages

- Optic and acoustic signals.
- High-strength special plastic frame with robust drum.
- Probe body: stainless steel (V2A) /nickel-plated brass; easy to clean.
- Accurate, length-stable measuring tape with cm graduation and dm marking.
- Optional: temperature measurement with LCD-display.
- Optional: conductivity- and temperature measurement with LCD-display.

- Measurement technology - Contact gauge
- Parameters measured - Water level / Distance to water, Temperature, Conductivity
- Product Highlights - Manual water level, temp. &/or conductivity measurement.



# OTT-KL-010 SERIES

## Example for Use

### OTT-KL-010 Series in general

- Measurement of depth to water in monitoring wells
- Control and reference measurements, calibration of groundwater dataloggers
- Test measurements at pumping tests

### OTT-KL-010-TM

- Creating temperature profiles

- Monitoring impacts on groundwater temperature
- Depth and temperature measurements

### OTT-KL-010-TCM

- Creating temperature and conductivity profiles
- Check for salt water intrusion in coastal areas
- Indicator measurements at immission pumping tests
- Spot measurements for potential pollution.

## Technical Specifications

OTT-KL-010	
Measuring tape lengths	15, 25, 30, 50, 80, 100, 150, 200, 250, 300, 500 and 750 m
Measuring accuracy	0.1 % FS
Signalling	Optical (signal lamp; LED optionally) & acoustic
Power supply	6 V DC; 4 x 1.5 V C-type cells (alkaline)
Operating life	≥12 months (KL 010 / TM)
Probe body	Stainless steel/nickel-plated brass, 15 mm Ø, 190 mm long
Weight	approx. 3.8 kg (15 m), 18.5 kg (750 m)
Operating temperature range	-30 ... +75°C
OTT-KL-010-TM	
Measuring tape lengths	25, 50, 100, 150, 200, 250, 300 and 500 m
Resolution	0.1 % FS
Temperature sensor	-5°C ... +60°C
Accuracy	±0.1°C
Resolution	0.1°C
Signalling/Indication	Display (LCD), 3 ½ digits, Button to display battery capacity in %, Optical signal (LED) & acoustic
Power supply	6 V DC; 4 x 1.5 V C-type cells (alkaline)
Operating life	≥12 months (KL 010/TM)
Probe body	Ø 15 mm, 183 mm long
Material	Stainless steel/nickel-plated brass
Weight	approx. 3.6 kg (25 m), 14.3 kg (500 m)
Operating temperature range	-30 ... +75°C
OTT-KL-010-TCM	
Measuring tape lengths	30, 50, 100, 150, 200, 250 and 500 m
Resolution	0.1 % FS
Temperature sensor	-1 ... + 70°C
Accuracy	±0.1°C
Conductivity measuring cell	0 ... 200 mS/cm
Accuracy	±0.5% of measured value, min. ±2 S/cm
Signalling/Indication	Display (LCD), 3 digits, bar graph display for battery state, Optical signal (LED) & acoustic
Power supply	6 V DC; 4 x 1.5 V C-type cells (alkaline)
Operating life	approx. 18 h operating time
Material	Stainless steel
Probe body	Ø 20 mm, 238 mm long
Weight	approx. 3.7 kg (30 m), 14.5 kg (500 m)
Temperature operating range	-20 ... +75°C
GENERAL	
Measuring tape	White polyethylen tape (2 wires), Conductor in high strength, rust & acid resistant stainless steel wires, Meter graduation in red, centimetre marks and decimetre graduation in black on white tape
Tape drum	Special plastic, high strength, resistant to low temperatures, Protection Class IP64
Frame design 1	Cast aluminium, steel
Frame design 2	Special plastic, high strength, resistant to low temperatures