Interface meter - 98 ft (30 m)

11.08.07

With the Interface meter you can quickly and easily determine light (floating) non-aqueous phase liquids (LNAPL) and dense (sinking) non-aqueous phase liquids (DNAPL) to a depth of 98 feet (30 meters). The interface meter is CSA certified for class one groups C and D locations till 122°F (50 °C).

- Accurate, reliable, robust
- Determine light non-aqueous phase liquids and dense non-aqueous phase liquids
- Designed for rugged field use
- Sturdy free-standing reel with carrying handle
- Stable electronics with automatic circuitry testing
- Laser-marked flat tape; easy to decontaminate; resists strains

Description

This interface meter allows you to quickly and easily determine light (floating) non-aqueous phase liquids (LNAPL) and dense (sinking) non-aqueous phase liquids (DNAPL). The interface meter is very accurate, reliable, and robust, making it ideal for use in the field.

If the liquid is a non-conductive oil/product the light and tone signals are continuous. And if the liquid is water (conductive liquid > 50 µS/cm), the tone and light signals are intermittent. Both sensors use the same zero point, which gives an accuracy as good as 1.0 millimeter (or 1/200 foot). The high accuracy enables the sensors to detect the slightest sheen of oil on the surface of the water.

Method

To measure the thickness of a floating layer, lower the probe into the well until the signals activate. If there is an oil/product layer on the top of the water (LNAPL), the light and tone will be steady. Read the depth of the permanently marked tape. Next lower the probe further into the water, where the signals become intermittent, then take a reading at the product/water interface. The thickness of the product layer is then determined by subtracting the first reading from the second.

In case there is a sinking layer (DNAPL) the intermittent signal will be first, followed by a continuous signal.

Applications

- Determine light (floating) Non-Aqueous Phase Liquids (LNAPL)
- Determine dense (sinking) Non-Aqueous Phase Liquids (DNAPL)

Set contains

- Acoustic- and light signal
- Electrode Ø 0.63 inches (16 millimeters)
- 98 feet (30 meters) tape with millimeter graduation

Water level meter pocket size - 33 ft (10 m)

11.03.40

With this water level meter you can take measurements to a depth of 33 feet (10 meters). The pocket water level meter has acoustic and light signals when the probe comes into contact with a conductive liquid.

- Fast, easy and solid measurement of the water level
- Lightweight and compact
- Stainless steel electrode of Ø 0.47 inches (12 millimeters)
- Easy to clean

Description

The water level meter is part of the standard equipment for measuring the groundwater level. It has a stainless-steel probe connected to a 10-metre (33 foot) tape with centimeter graduations. The probe is easy to clean. In addition, it is a compact device and therefore easy to take along. In short, the perfect device for quick, simple and solid measurements of the water level.
The water level sensor is easy to use; when the probe comes into contact with a conductive liquid, it will emit a clear sound and light signal. If the cable is then lifted slightly, the signal stops and the depth can be read directly from the measuring tape (accuracy: ± 1 centimeter).
Applications

- Water level measurements of electrically conducting liquids in boreholes, wells and tanks (in ATEX-free zones only)
- Long-term observations for periodic level soundings
- Continuous water level registration during pumping tests
- Additional sounding of well depths using the bottom sensor (accessory)
- Geohydrological research
- Water quantity research

Specifications

Water level meter pocket size - 33 ft (10 m)	
Diameter (D) and /or size (L*W*H)	Sensor D 0.47 in, L 2.76 in / Sensor D 12 mm, L 70 mm
Maximum measuring depth	33 ft (10 m)
Measured parameters	Level
Measuring principles	Conductivity
Battery	9 volt DC with, Lifetime 2 years
Product material	Stainless steel and electroplated brass (easy to clean)
Safety class for probe	IP 68, permanently pressure resistant
Safety class measuring tape	IP 64, spray water resistant
Reading accuracy	0.4 in (1 cm)
Registration type	Manual
Recommended storage temperature	+41°F up to +86°F (+5 °C up to +30 °C), for battery protection
Package size	4.3 x 4.3 x 4.3 in / 11 x 11 x 11 cm
Weight	14.8oz / 420 g

Water level meter mini - with start/stop system

11.03.30

This water level meter is perfect for measuring the water level. The meter gives a clear acoustic and light signal when it comes in contact with a liquid substance after which the depth can be

easily read. This water level meter has a start/stop method to limit the drop in water level and can be used with the Royal Eijkelkamp peristaltic pump.

- Start/stop system for the Eijkelkamp peristaltic pump
- More accurate analyses
- Fewer soil particles into the filter pipe
- Sound and light signal when you reach the water level
- Easy to carry
- Available in two variants

Description

The water level meter is part of the standard equipment for measurement of groundwater level. It is provided with a stainless-steel probe with a diameter of only 0.55 inches (14 millimeters), which is connected to a measuring tape with centimeter graduation. The probe gives clear light and sound signals when the probe comes into contact with a conductive liquid. The user can lift the cable slightly to stop the signal. The depth can then be easily read via the measuring tape. The product is accurate to approximately centimeter.

The purpose of the start/stop method of preliminary pumping is to limit the drop in water level such that the inflowing water draws many fewer soil particles into the filter pipe, which will result in much more accurate analyses. This water level meter can be connected to the Royal Eijkelkamp peristaltic pump.

Applications

- Geohydrological research
- Water quantity research

Standards and directives

- The Dutch standard NEN 5744-2011 for the sampling of groundwater
- The American standard EPA504-S95-504 low flow (minimal drawdown) groundwater sampling procedure

The international directive ISO 5667-11: 2009 sampling of groundwater (micro-purging section)

Available versions

- **11.03.30** 10 m with start/stop system
- **11.03.32** 30 m with start/stop system

Specifications

Water level meter mini - with start/stop system	
Battery life time	2 years
Diameter (D) and /or size (L*W*H)	Sensor D 0.55 in (14 mm)

Water level meter mini - with start/stop system	
Maximum measuring depth	33 ft (10 m)
Measured parameters	Level
Measuring principles	Conductivity
Power supply	Battery, 9 volt DC
Product material	Stainless steel, PVC, other material
Reading accuracy	0.4 in (1 cm)
Registration type	Manual
Rod or cable operated	Cable
Package size	3.9 x 7.9 x 5.9 in / 10 x 20 x 15 cm
Weight	1.3 lbs / 600 g

Water level meter

11.03

This Water level meter with acoustic and light signal is compact and robust. It is used for measuring the water level and is available in three different lengths: 49.2, 98.4, 164 feet (15, 30, 50 meters).

- Mobile device for fast, easy and solid measurement of the water level
- Easy to carry
- Small stainless steel electrode of 0.59 inches diameter
- Easy to clean

Description

The water level meter is part of the standard equipment for measuring the groundwater level. It is provided with a stainless-steel probe, which is connected to a measuring tape with centimeter graduation. This compact version is characterized by its robust design and favorable price. Its low weight and slim design make it easy to transport.

When the probe touches a conductive liquid, it will emit a clear acoustic and light signal. Once the cable is then slightly lifted, the signal will stop, and the depth reading can be done directly from the measuring tape (accuracy: ± 1 centimeter).

Available variations

- **11.03.41** Range 49.2 feet (15 meters)
- **11.03.42** Range 98.4 feet (30 meters)
- **11.03.43** Range 164 feet (50 meters)

Applications

- Water level measurements of electrically conducting liquids in boreholes, wells and tanks (in ATEX-free zones only)
- Long-term observations for periodic level soundings
- Continuous water level registration during pumping tests
- Additional sounding of well depths using the bottom sensor (accessory)
- Geohydrological research

Water quantity research

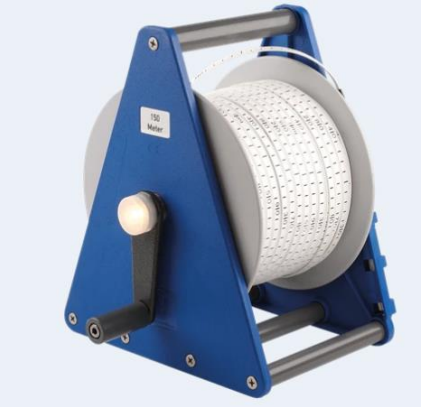
Specifications

Water level meter	
Diameter (D) and /or size (L*W*H)	Sensor D 0.59 in, L 7.67 in / Sensor D 15 mm, L 195 mm
Measured parameters	Level
Measuring principles	Conductivity
Power suply	Battery, 4x 1,5 volt DC (AA) with 2 years lifetime
Product material	Stainless steel and electroplated brass (easy to clean)
Safety class for probe	IP 68, permanently pressure resistant
Safety class measuring tape	IP 64, spray water resistant
Reading accuracy	0.4 in (1 cm)

Water level meter	
Registration type	Manual
Recommended storage temperature	+41 °F up to +86 °F (+5 °C up to +30 °C), for battery protection
Package size	13.4 x 8.7 x 9 or 15.4 x 13.8 x 13.8 in / 34 x 22 x 23 or 39 x 35 x 35 cm
Weight	4.6 or 6.6 or 11 lbs / 2.1 or 3 or 5 kg

Water level meter on a frame

11.03



Thanks to its frame, this robust water level gauge is easy to carry and thus ideal to take along in the field. It is used for measuring the water level and is available in many lengths. This water level meter is equipped with sound and light signals.

- Easy handling with its carrying frame
- Sound and light signal when the probe reaches the water level
- Mobile device for fast, easy and solid measurement of the water level
- Small stainless steel electrode of 0.59 inches diameter
- Easy to clean

Description

The water level meter is part of the standard equipment for measuring the groundwater level. This model has a strong and robust frame but is still easy to carry. The probe is made of stainless steel and is connected to a long measuring tape with centimeter graduations, for easy read-out of the levels.

The probe gives a sound and light signal when it touches a conductive liquid. If the cable is then lifted slightly, the signal stops and the depth can be read directly from the measuring tape (accuracy: ± 1 centimeter). Royal Eijkelkamp's Water level meter is available in various lengths.

Available variations

- **11.03.42.01** Range 98.4 feet (30 meters)

- **11.03.43.01** Range 164 feet (50 meters)
- **11.03.45** Range 328 feet (100 meters)
- **11.03.46** Range 492 feet (150 meters)
- **11.03.47** Range 656 feet (200 meters)
- **11.03.48** Range 984 feet (300 meters)
- **11.03.49** Range 1,640 feet (500 meters)

Applications

- Water level measurements of electrically conducting liquids in boreholes, wells and tanks (in ATEX-free zones only)
- Long-term observations for periodic level soundings
- Continuous water level registration during pumping tests
- Additional sounding of well depths using the bottom sensor (accessory)
- Geohydrological research
- Water quantity research

Specifications

Water level meter on a frame	
Diameter (D) and /or size (L*W*H)	Sensor D 0.59 in, L 7.67 in / Sensor D 15 mm, L 195 mm
Measured parameters	Level
Measuring principles	Conductivity
Power supply	Battery, 4x 1,5 volt DC (AA) with 2 years lifetime
Product material	Stainless steel and electroplated brass (easy to clean)
Safety class for probe	IP 68, permanently pressure resistant
Safety class measuring tape	IP 64, spray water resistant
Reading accuracy	0.4 in (1 cm)
Registration type	Manual
Recommended storage temperature	+41 °F up to +86 °F (+5 °C up to +30 °C), for battery protection

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