

Heron Sm.OIL Oil/Water Interface Meter

Model: Sm.OIL

Length Options: 60ft/20m

Certified intrinsically safe to CSA/NRTL standards

The Sm.OIL

The Heron **Sm.OIL** is certified intrinsically safe for use in explosive environments. Using the grounding cable ensures safety when working in hazardous environments. The **Sm.OIL** is a precision instrument used to accurately measure the thickness of product layers (LNAPL) as thin as 1mm (1/200ft) floating on the water table and sinking layers (DNAPL) quickly, easily and accurately. The fully pressure proof probe is 5/8" (16mm) in diameter and is ideal for wells, piezometers and direct push equipment. The **H.OIL** will signal oil with a solid tone and light. The **Sm.OIL** will signal water with an intermittent tone and a flashing light.

Sm.OIL Tape Specifications:

The **Sm.OIL** uses the premium high tensile steel, easy read yellow tape jacketed in clear Kynar. The Kynar jacketing can withstand attack from hydrocarbons, solvents and other harsh contaminants. This accurate high strength engineering grade tape is manufactured to the ASME standard of accuracy. The flexible tape winds smoothly onto the tough Nylon reel while the dog-bone cross section prevents the tape from sticking to wet surfaces and well casings. The **Sm.OIL** tape is marked to engineering scale: Feet and tenths with markings every 1/100ft and Meters and Centimeters with markings every mm.

Sm.OIL Electronic Module Specifications:

The **Sm.OIL** includes a fully potted, fully field removable electronic module. The super bright red LED and buzzer are housed inside this water tight module. The **Sm.OIL** works on one 9 volt battery in an easy access battery drawer mounted on the front of the module. The state of the art electronic module has an automatic shut off after 10 minutes of inactivity designed to extend the life of the battery.

Sm.OIL Probe Specifications:

The **Sm.OIL** comes with a standard 5/8 inch (16mm) diameter fully submersible, leak proof probe up to 1000ft/300m. The stainless steel probe is 6 inches (15mm) in length and is attached to the tape using a flexible linking device that allows the tape and probe to be protected at this vital junction. The lens at the end of the probe is protected by a stainless steel shield. The emitter at the tip sends a beam of infra red light through the lens to the detector. This process identifies conductive liquid (water) and none conductive liquid (product) to give the appropriate signal. The **Sm.OIL** probe is field replaceable.

Sm.OIL Reel Specifications:

The **Sm.OIL** is a well balanced mini unit. The mini stand alone, sturdy steel frame is coated in Polyurethane for durability and is small enough to fit into a back pack. The comfort padded carry handle is ergonomically designed for comfort and easier rewinding. The reel flanges and center hub are molded from high strength Nylon running on a stainless steel axle allowing the smooth running of tape up and down the well or borehole. The third hand well casing hanger and tape guide are standard features on all Heron units. (Excluding **little dipper**) The **Sm.OIL** frame includes the grounding cable used for safety in explosive environments.

Obtaining Product Measurements with the Sm.OIL:

To obtain the measurement of the thickness of product floating on the surface of the water, lower the probe into the well until the tone and light signal liquid. If there is product present the electronic module will indicate with a solid tone and a solid light. Take your measurement by reading the tape at your datum point. Continue to lower the probe into the well, when the tone and light become intermittent you have encountered water. Pull the probe back up slowly taking your reading at the product/water interface. If no product is present in your well only the intermittent tone and light will signal. DNAPLS can be detected by continuing to lower the probe to the bottom of well noting any solid tone and light signals.

Features to remember:

- Certified intrinsically safe to CSA/NRTL standards included.
- Small compact unit for ease of portability.
- Yellow easy read flexible tensile steel tape manufactured to ASME standards included.
- Hydrocarbon resistant Kynar jacketing on tape included.
- Tape guide and third hand well casing hanger included.
- Carry bag and cleaning kit included.

Options:

- Heron field support kit

