Mini Interface Meter
Model 122M - Laser Marked PVDF Coaxial Cable

Solinst Oil/Water Interface Meters provide clear and accurate measurements of product level and thickness in wells and tanks. Determination of both light (floating) non-aqueous phase liquids (LNAPL) and dense (sinking) non-aqueous phase liquids (DNAPL) is quick and easy.

The Model 122M Mini Interface Meter with PVDF laser marked cable is a convenient small version, which can easily fit in a backpack, or an optional custom mini carry case. It uses narrow laser marked PVDF cable, in 80 ft or 25 m lengths.

The Mini Interface Meter enhanced electronics include automatic circuitry testing; 300 hours of on-time battery life; clear signals; and high accuracy. The circuits are powered by one standard 9V battery housed in easy-access drawer in the faceplate.

Also available is the standard Solinst Model 122 Interface Meter with laser marked PVDF flat tape in lengths up to 1000 ft (300 m).

Features
- Sensor accuracy to 1/200 ft or 1.0 mm
- Certified intrinsically safe
- 5/8” (16 mm) diameter probe
- Easy access battery: minimum 300 hours of life
- Stable electronics with automatic circuitry testing
- Compact and easy to transport in a backpack
- Designed for rugged field use

Operating Principles

Product (Non-conductive liquid) = Steady light and tone
Water (Conductive liquid) = Intermittent light and tone

To detect liquids, the Model 122M Mini Interface Meters use an infra-red beam and detector. When the probe enters a liquid the beam is refracted away from the detector which activates an audible tone and light. If the liquid is a non-conductive oil/product the signals are steady. If the liquid is conductive (water), the conductivity of the water completes a conductivity circuit. This overrides the infra-red circuit, and the tone and light are intermittent.

Both sensors use exactly the same zero point, giving accuracy as good as 1/200 ft or 1.0 mm. The high accuracy enables the sensors to detect the slightest sheen of oil on the surface of the water.

Hazardous Locations Use

The Model 122M Mini Interface Meter with PVDF Cable has been approved by QPS for use in hazardous locations, Class I, Div 1, Groups C&D based on CSA Standards. It is also ATEX certified under directive 94/9/EC as II 3 G Ex ic IIB T4 Gc.

The ground cable is a safety essential when the meter is used in potentially explosive environments. It also ensures that the electronics are properly protected.