

## Solenvis SL85 Portable Level Meter Technical Specifications



The Solenvis SL85 Portable Level Meter is a dedicated liquid level indicator for fire extinguisher systems. It is the cost effective and environmentally friendly solution for checking the liquid contents of single and multi-banked cylinder installations. It will also find the level of liquids in any single skinned metal vessel of up to 1" (2.5cm) wall thickness.

Finding a liquid level with the Solenvis SL85 Portable Level Meter is simple. The sensor applicator is placed onto a cylinder above the expected level of the liquid and calibrated. Then a series of readings are taken on the cylinder to identify the level of the liquid. With experience, operators can detect interfaces between different types of liquids.

The Solenvis SL85 Portable Level Meter is a small compact hand held instrument of rugged design with simple to operate push button controls. The liquid level is indicated by two separate displays, a red light LED display and a LCD digital readout.

The unit is supplied with a standard dry sensor incorporating a magnetic applicator to ensure correct positioning on all types of cylinders. A wet sensor and gel for poor condition cylinders is also available.

An optional extension rod allows for monitoring the second and third rows of multibank cylinder installations where access is limited. The Solenvis SL85 Portable Level Meter is automatically calibrated to the cylinder under test at the touch of a button.

### TECHNICAL SPECIFICATION

<b>Function</b>	To indicate liquid gaseous extinguishants and other liquids in high or low pressure, single-skinned steel containers with up to 1" (2.5cm) wall thickness thick. Also functions on most types of single skinned industrial fluid containers.
<b>Type</b>	Solenvis SL85 Portable Level Meter® Digital.
<b>Liquids/Gases locatable</b>	CO2, Halon, FM200™, NAF S III, other Halon substitutes, LPG and other liquids.
<b>Sensor</b>	Ultrasonic single crystal sensor fitted with a magnetic head for hands-free operation. 16mm x 16mm.
<b>Accuracy</b>	+/- 1.5mm (1/16").
<b>Controls</b>	On/Off Switch, SPA (increases transmitter receive signal) switch, "CAL" self-calibration switch.
<b>Display</b>	Digital: LED and LCD digital display.
<b>Power Supply</b>	4 x AA 1.5V Batteries. Consumption 230mA. Battery Life: 10 hours.
<b>Weight</b>	500g (1lb, 1oz).
<b>Dimensions</b>	Instrument: 155mm x 95mm x 45mm ( 6 2/3" x 3 3/4 " x 1 25/32") (Packed ex works for shipping including carrying case: 34cm x 31cm x 18cm ; Weight: 3.5Kg ).

<b>Operating Temperature</b>	Limited by the physical properties of the liquid gas. Optimum operating temperature ranges - CO2: 5°C - 25°, Halon and Halon replacements : 15°C - 40°C
<b>Calibration</b>	The Solenvis SL85 Portable Level Meter Digital is self-calibrating.
<b>Accessories</b>	"Wet" and "Dry" Sensors for poor condition and good condition cylinder surfaces respectively. Extension Rod for 2-3-4 multi-banked cylinder row installations and pipe work.

## **ANCILLARIES**

### **Multi Bank Extension Kit**

Designed determining the liquid level of extinguishant in cylinders in the rear rows of multiple cylinder banks. The unique rod design allows a sensor to be passed between tightly packed cylinders in multiple installations, so avoiding the need for moving any of the front row cylinders. The extension kit contains an integral sensor and is essential for any user who needs to reach inaccessible cylinders or test large multiple cylinder systems.

### **Wet Sensor**

A wet sensor is available for use on pitted or poor condition cylinders. The wet sensor, when used with gel, allows proper sensor contact with cylinders that have a poor condition or uneven surface.

The wet sensor is recommended for any user likely to encounter poor condition externally stored cylinders, in particular, CO2 cylinders.

### **Carrying Case**

The Solenvis SL85 Portable Level Meter is supplied in a waterproof plastic carrying case ideal for transit and storage.

### **Slimline Infra-Red Thermometer**

The physical properties of carbon dioxide are such that it changes from liquid to gas at 31° C Centigrade. Halon and other substitutes are similarly affected at the higher temperatures of 50° C and above. Therefore Solenvis SL85 Portable Level Meter readings must be taken at a time of day when cylinder wall temperatures are below these levels. A slim line thermometer is available for checking critical cylinder temperatures in hot climates. A Solenvis portable, non-contact thermometer is recommended for any user operating in hot climates who is likely to encounter CO2 cylinders stored outside or in temperature affected storage rooms.

## **MAINTENANCE AND SERVICING FOR THE SOLENVIS SL85 PORTABLE LEVEL METER**

### **Warranty**

The Solenvis SL85 Portable Level Meter carries a three year warranty covering all parts and labour. Warranty is invalidated if anyone other than Coltraco technicians open or work on the equipment. (The sensor is covered by a one year warranty)

### **Maintenance and Servicing**

The Solenvis SL85 Portable Level Meter is designed to be maintenance free and, with no moving parts. If used correctly, it will provide reliable service for many years. If damaged the equipment should be returned to Coltraco for repair or replacement.

### **Spare Parts**

Users need not carry spare parts but may wish to keep spare sensors if they are operating many units.

### **Calibration**

Calibration checks can be carried out by testing the equipment on a cylinder with a known level. We recommend that units are returned for annual recalibration, usually a requirement for any ISO 9001 operation using test instrumentation. Units returned for recalibration are generally tested and certified within a 48-hour turnaround period.