

# SEM RAD

## DIESEL MATE 1000



- Easy Installation
- Automatic Density for Diesel Selected
- Push button selection of displays
- Calibrated to your tank dimensions by simple pushbutton combination
- 2 alarm relays
- Volume in litres
- Ullage in litres
- Level in Metres
- % full
- 4-20ma option
- No electronic sensors in your fuel vessel

*...the level control company*

# ABOUT DIESEL MATE

Diesel Mate is a wall mounted electronic sensor suited to measure Diesel Fuel in all types of vessels. The electronic enclosure houses a small compressor that purges air through 6mm tubing. The tubing is inserted into the fuel vessel. A ballast weight is secured on to the end of the tubing and lowered into the vessel until it rests on the bottom. The compressor pumps air through the tubing and purges the air line. Depending on the level of fuel in the vessel the pressure is measured by a highly accurate sensor in the electronics. This back pressure is converted in the software to display Level in metres, Volume in litres, Ullage in Litres, % full. Two relays are available to be programmed to indicate high alarm and Low alarm. We have other products using the same technology to measure oils, acids and other types of liquids with heavier densities. In other Diesel Mate models, they can be installed at remote sites with no power, we can provide Solar Cells with battery back up that will provide power up to 7 days with out sunlight. Diesel Mate can also be fitted with remote monitoring alarms by installing a GSM module with SMS features for transmitting low level alarms. The diesel supply company can organise a more efficient diesel run with this information, it also helps prevent the operation from running out of fuel.

## APPLICATIONS

Diesel Mate is most suited to measuring the amount of diesel in your vessel. The vessel can be vertical/horizontal cylinders or rectangular/cube in shape; a simple selection in the configuration helps you select the right shaped vessel. The density for diesel is automatically selected. If you have heavy oils in your tank, the density can be changed and entered along with your tank dimensions to read volume, ullage in litres, Level in Metres and % full.

## TECHNICAL TABLE

	<b>MODEL #DM-1000</b>
<b>Sensor Tubing</b>	Nylon 6mm x 4mm   Standard 10mtr   Max length 50 mtr
<b>Sensor Weight</b>	Brass Ø28mm x L70mm
<b>Max tank height</b>	4 mtr
<b>Viscosity</b>	Max 2000Cst (needs larger tubing and weight)
<b>Compatible fluids</b>	Non-flammable fluids, non-explosive.
<b>Operating range</b>	0-4mtr max
<b>Temperature</b>	-20 to +50Deg C
<b>Humidity</b>	Up to 90%
<b>Tank Shapes</b>	Vertical /horizontal cylinders
<b>Display capacity</b>	50litre to 999,000
<b>Display</b>	Pushbutton selectable, Level, volume, ullage,%
<b>Accuracy</b>	+/- 1%
<b>Repeatability</b>	+/- 0.5%
<b>Alarms</b>	2x programmable relays for high and low
<b>Contact Rating</b>	2Amp at 230vac
<b>Power Supply</b>	230vac/110vac. 24vdc and 12vdc version available.
<b>Solar Cells</b>	5 watt power Tech
<b>Battery</b>	Re chargeable lithium 9AHBack
<b>Enclosure</b>	IP55 wall mounted
<b>Controller</b>	165mm x 180mm x 60mm
<b>Dimensions</b>	

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