



# **Digital Portable Submersible**

**Density/Level/Specific Gravity/Concentration Meter** 

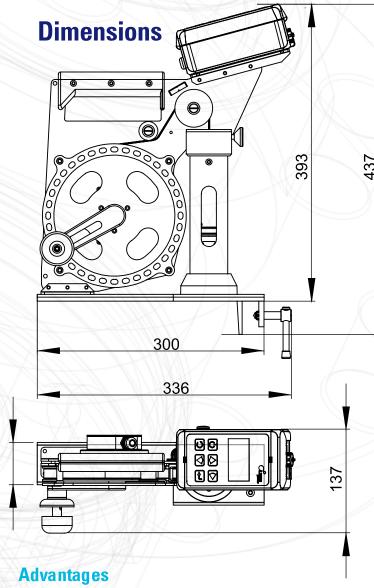
**DUTI-254 (DM-250.4)** 

IN PROCESS TO EXCELLENCE

250 SERIES

The portable density meter DUTI-254 is designed for density and level measurements of any pure liquids directly in tanks, without sampling, at the depth up to **30 meters**.





- Direct density measurement
- Record spot density and average per tank
- Automatic temperature compensation
- No sampling required
- ATEX, IEC Hazloc certification
- Safe operation, low maintenance
- At any depths up to 30 meters
- Economical and easy to operate
- Measures highly viscous liquids up to 2000 cP
- Rigid construction for heavy duty outdoor operation
- Local results storage and Bluetooth and USB data transfer

#### **Applications**

- Petroleum industry
- Ethanol production
- Food & Beverages
- Chemical industry
- Cosmetic industries
- Pharmaceutical industry











## **DUTI-254 OVERVIEW**

**Device Controller** 



## For Easy Distinguish:

**Displays Density and Temperature Displays Referred Density Displays Level** Displays Tank Number, Date and Time





## **Principle:**

#### **Detection of Density and Ullage**

The detection method is based upon the principle of detecting a change in resonance frequency.

#### **Temperature Measurement**

Temperature measurement is obtained by changes in electrical resistance of a platinum element.

Ambient temperature

Depth of submersion

Type

Data handling

Delivery

Material

Weather raiting

Sensor:

<b>Specifications</b>	
Measuring range:	
Density	0 3 g/cm³ (0 3000 kg/m³)
Density Standard calibration	0.6 1.2 g/cm <sup>3</sup> (600 1200 kg/m <sup>3</sup> ) 0.9 1.8 g/cm <sup>3</sup> (900 1800 kg/m <sup>3</sup> )
Temperature Level	-40 +85°C (-40 +185°F) up to 30 m (100ft.)
Accuracy:	
Density	±0.0003 or ±0.0005 g/cm <sup>3</sup> (±0.3 or ±0.5 kg/m <sup>3</sup> )
Temperature	±0.1°C (±0.2°F) or ±0.2°C (±0.4°F)
Level	±2mm (±0.008")
Repeatability:	
Density	±0.00015 or ±0.00025 g/cm <sup>3</sup> (±0.15 or ±0.25 kg/m <sup>3</sup> )
Temperature	±0.1°C (±0.2°F)
Level	±1mm (1/16")
Resolution:	
Density	0.0001 g/cm <sup>3</sup> (0.1 kg/m <sup>3</sup> )
Temperature	0.01°C (0.02°F)
Level	±1mm (1/16")
Supported measuring units	Real Density: g/cm³, kg/m³, lb/gal, lb/ft³; API; SG Referred Density: at 15°C, 20°C, 60°F; API60; SG60
	Tables ASTM D 1250
	Alcohol Tables
	Temperature in °C or °F



Multifunctional software allows to proceed the measurements results in use-convenient form; Compatible for a Windows 7/8/10\*



Immediate printout of the measurements by Bluetooth No need for PC\*



Delivered in compact carrying case





\* Option

#### **Intrinsically safe:** Level block with sensor ATEX II 1G EEx ia IIB T4 Charging device USB with IP68 protected connecter **Power supply** NiMH 3.6V-1500mAh Operating time without charging Appr. 12 hours **Dimensions, weight:** Level block with sensor 437 x 336 x 137 mm (17.1 x 13.2 x 5.4 in), 3 kg (6.6 lb) Temperature compensation **Automatic** Viscosity compensation **Automatic** OLED Display (128x64) with backlight Local memory up to 2000 results with date/time stamped

**IP68** 

-40... +85°C (-40... +185°F)

Vibrating element (Resonance principle)

Stainless steel SS 316 L; NiSpan C; Hastelloy C22

Up to 30 meters (100 ft.)

### For more information please visit www.lemis-process.com

Optional Windows - based software Delivered in compact carrying case

Build in Bluetooth and USB for data transfer to printer or PC



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