

Digital Portable Submersible

Density/Specific Gravity/Concentration Meter

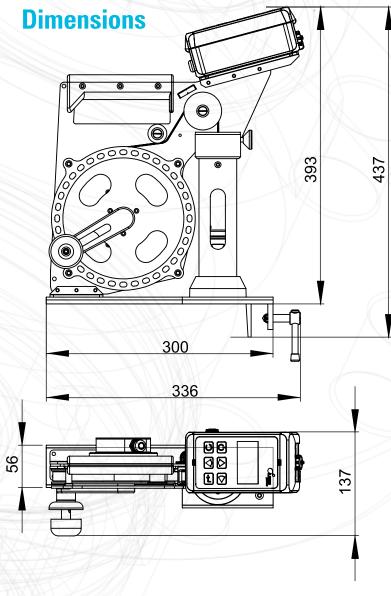
DM-250.2

IN PROCESS TO EXCELLENCE

250 SERIES

The portable density meter DM-250.2 is designed for density measurements of any pure liquids directly in tanks, without sampling, at the depth up to **30 meters**.





Advantages

- Direct density measurements at any depths up to 30 meters
- No sampling required
- ATEX, IEC Hazloc certification
- Automatic temperature compensation
- Safe and easy operation, low maintenance
- Measures highly viscous liquids up to 2000 cP
- Rigid construction for heavy duty outdoor operations
- Local results storage up to 2000 results
- Bluetooth or USB data transfer

Applications

- Petroleum industry
- Ethanol production
- Marine industry
- Chemical industry





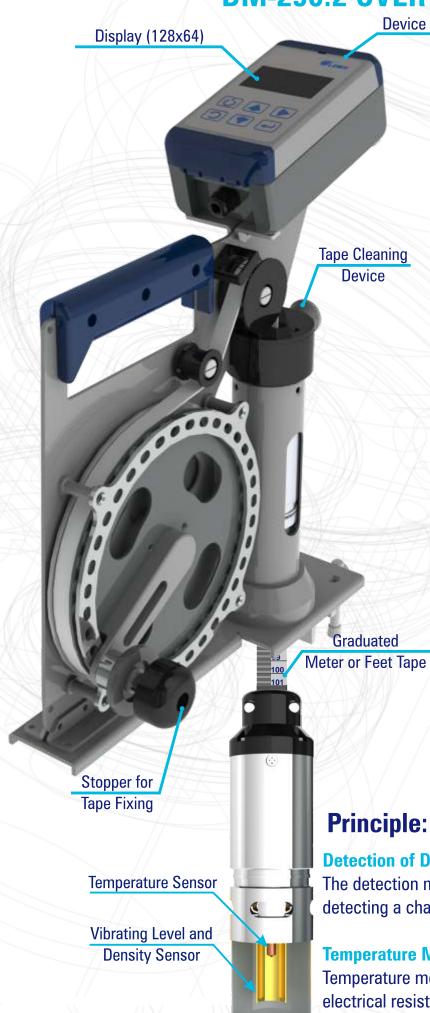




DM-250.2 OVERVIEW

Device

Device Controller



Displayed Menu Overview





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

Material

Controller

Sensor

Dimensions, weight:

Charging device

Power supply

Data handling

Delivery

Instrument protection

Operating time without charging

Temperature compensation

Viscosity compensation

Level block with sensor

Hazardous environment Approvals

Sensor:

necifications

Specifications		
Measuring range: Density Density Standard calibration Temperature	0 3 g/cm ³ (0 3000 kg/m ³) 0.6 1.2 g/cm ³ (600 1200 kg/m ³) 0.9 1.8 g/cm ³ (900 1800 kg/m ³) -40 +60°C (-40 +140°F)	
Accuracy: Density Temperature	±0.0003 or ±0.0005 g/cm³ (±0.3 or ±0.5 kg/m³) ±0.1°C (±0.2°F) or ±0.2°C (±0.4°F)	
Repeatability: Density Temperature	±0.00015 or ±0.00025 g/cm³ (±0.15 or ±0.25 kg/m³) ±0.1°C (±0.2°F)	<u> </u>
Resolution: Density Temperature	0.0001 g/cm³ (0.1 kg/m³) 0.01°C (0.02°F)	
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

IP68

Temperature in °C or °F -40... +60°C (-40... +140°F)

Up to 30 meters (100 ft.)

ATEX II 1G Ex ia IIB T4 Ga

NiMH 3.6V-1500mAh

Appr. 12 hours

Automatic

Automatic

Vibrating element (Resonance principle)

ATEX II 2(1)G Ex ib [ia Ga] IIB T4 Gb

USB with IP68 protected connector

Display (128x64) with backlight

Delivered in compact carrying case

Windows - based software

Stainless steel SS 316 L; NiSpan C; Hastelloy C22



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

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

437 x 336 x 137 mm (17.1 x 13.2 x 5.4 in), 3 kg (6.6 lb)

Local memory up to 2000 results with date/time stamped Build-in Bluetooth or USB for data transfer to printer or PC



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