



**Digital Portable Submersible
Viscosity Meter
VM-250.1N**

IN PROCESS TO EXCELLENCE

VM-250.1N Overview



Sensor principle of operation

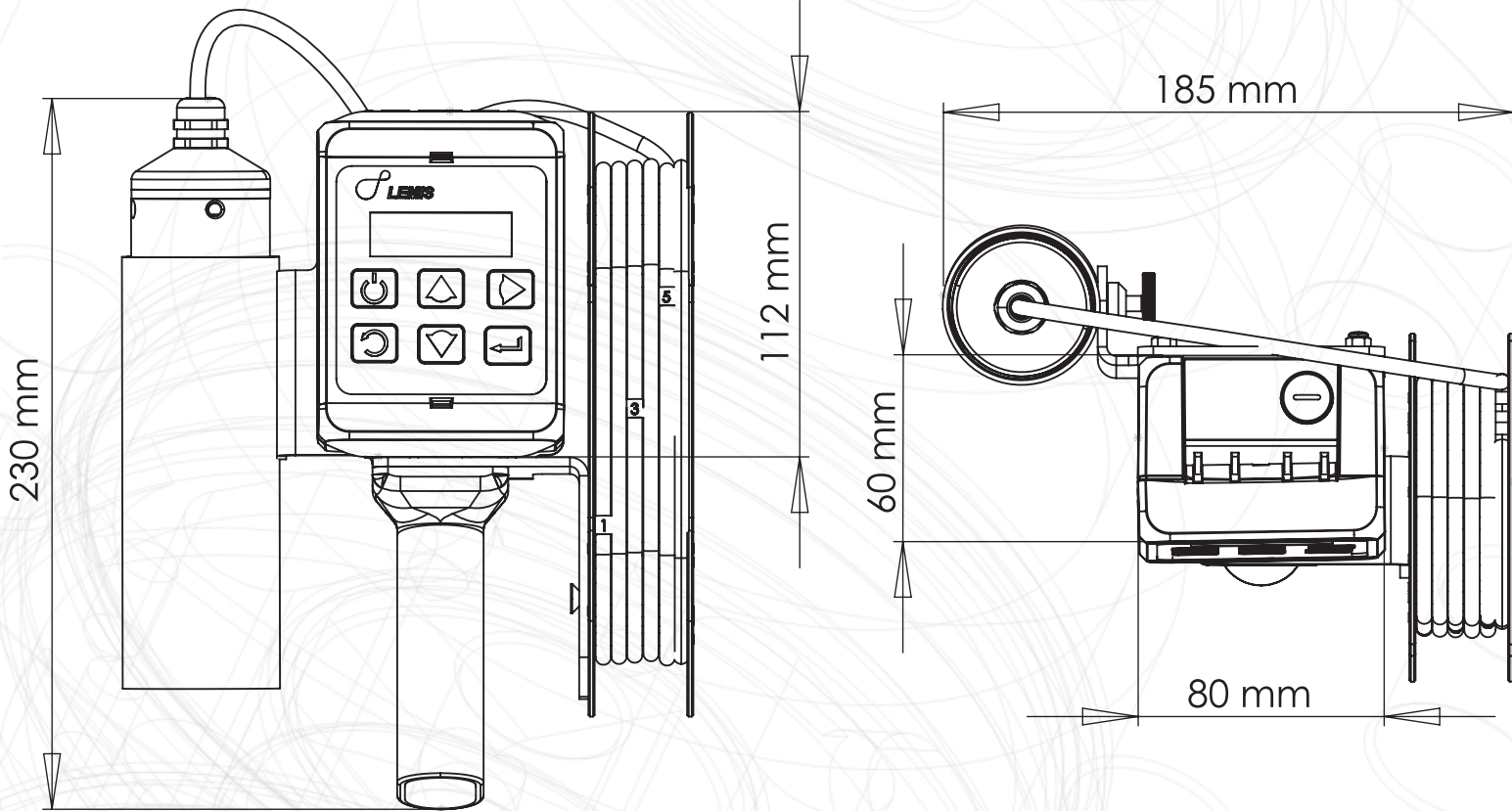
Detection of Viscosity and Ullage

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

Temperature Measurement

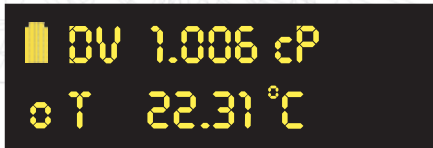
Temperature measurement is obtained by changes in electrical resistance of a platinum element.

Dimensions

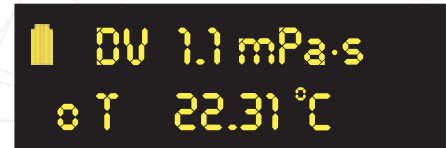


For Easy Distinguish

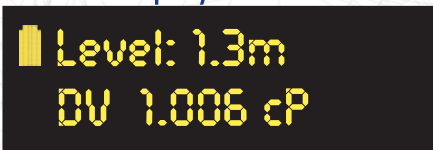
Displays Viscosity and Temperature



Displays Different Viscosity units



Displays Level



Displays Date of measurement

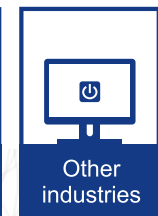


Advantages

- Direct viscosity measurement
- Automatic temperature compensation operation
- No sampling required
- ATEX Hazloc certification, IEC
- At any depths up to 6 meters
- Safe operation, low maintenance
- Rigid construction for heavy duty outdoor
- Economical and easy to operate
- Local results storage and Bluetooth and USB data transfer

Applications

- Record spot Viscosity and average per tank
- Products consistency and adulteration check
- Viscosity control at outlets and delivery points
- In-tank blending and mixing control
- Food, milk and dairy products
- Petroleum products ,fuels, lubricants



Specifications

Measuring range:

Dynamic Viscosity	Up to 10000 mPa·s (cP)
Viscosity calibration	0,1-100 mPa·s (cP) 1-1000 mPa·s (cP) 10-10000 mPa·s (cP)
Temperature	-40... +85°C (-40... +185°F)

Accuracy:

Dynamic Viscosity	±1% of span
Temperature	±0.1°C (±0.2°F) or ±0.2°C (±0.4°F)

Repeatability:

Dynamic Viscosity	±0,5% of span
Temperature	±0.1°C (±0.2°F)

Ambient temperature

-40... +85°C (-40... +185°F)

Depth of submersion

Up to 6 meters (20 ft.)

Sensor:

Type	Vibrating element (Resonance principle)
Material	Stainless steel SS 316 L; NiSpan C; Hastelloy C22

Intrinsically safe:

Controller	ATEX II (2G) EEx ib [ja] IIB T4
Sensor	ATEX II 1G EEx ia IIB T4

Electronic box:

Material	Antistatic Polyamide base
Power supply	NiMH 3.6V-2500 mAh rechargeable battery
Operating time without charging	Appr. 40 hours

Dimensions, weight:

Controller	230 x 186 x 117 mm (9.0 x 7.3 x 4.6")
Sensor	210 x ø45 mm (8.2 x ø1.7 in), 1 kg (2.2 lb)

Temperature compensation

Automatic

Reporting formats

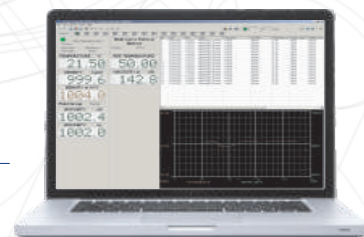
Dynamic viscosity in mPa·s or cP; temperature in °C or °F

Data handling

OLED Display (2x12) with backlight
Local memory up to 2000 results
Build in Bluetooth for data transfer to printer or PC
Optional Windows - based software

Delivery

Delivered in compact carrying case



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



USA
LEMIS USA, Inc.
15556 Summit Park Dr. Suite 601
Montgomery
TX 77356, USA
Ph.: +1 281 465 8441

EUROPE
AS LEMIS Baltic
26 Ganibu dambis
Riga, LV-1005
Latvia, EU
Ph.: +371 6738 3223
Fax: +371 6738 3270

INDIA
LEMIS India PVT LTD
504, Bhumiraj Costarica, 5th floor
Plot 1&2, Sector 18, Sanpada
Navi Mumbai-400705, INDIA
Ph.: +91 22 6721 5655
Fax: +91 22 6794 2666

E-mail: info@lemis-process.com