



250 SERIES



PORTABLE TANK GAUGING DEVICE

Density - Ullage Level - Temperature - Interface Level

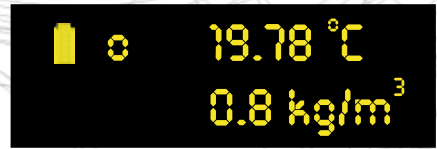
DUTI-254 Hermetic

DUTI-254H OVERVIEW



For Easy Distinguish:

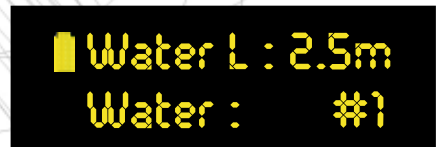
Displays Density and Temperature



Displays Interface Level



Displays Water Level



Displays Date & Time of measurement



Displays Probe Nr & available memory



Principle:

Detection of Density and Ullage

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

Detection of Interface

The detection method is based upon measuring the different voltage according to conductivity of water.

Temperature Measurement

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

Principle of Installation and operation

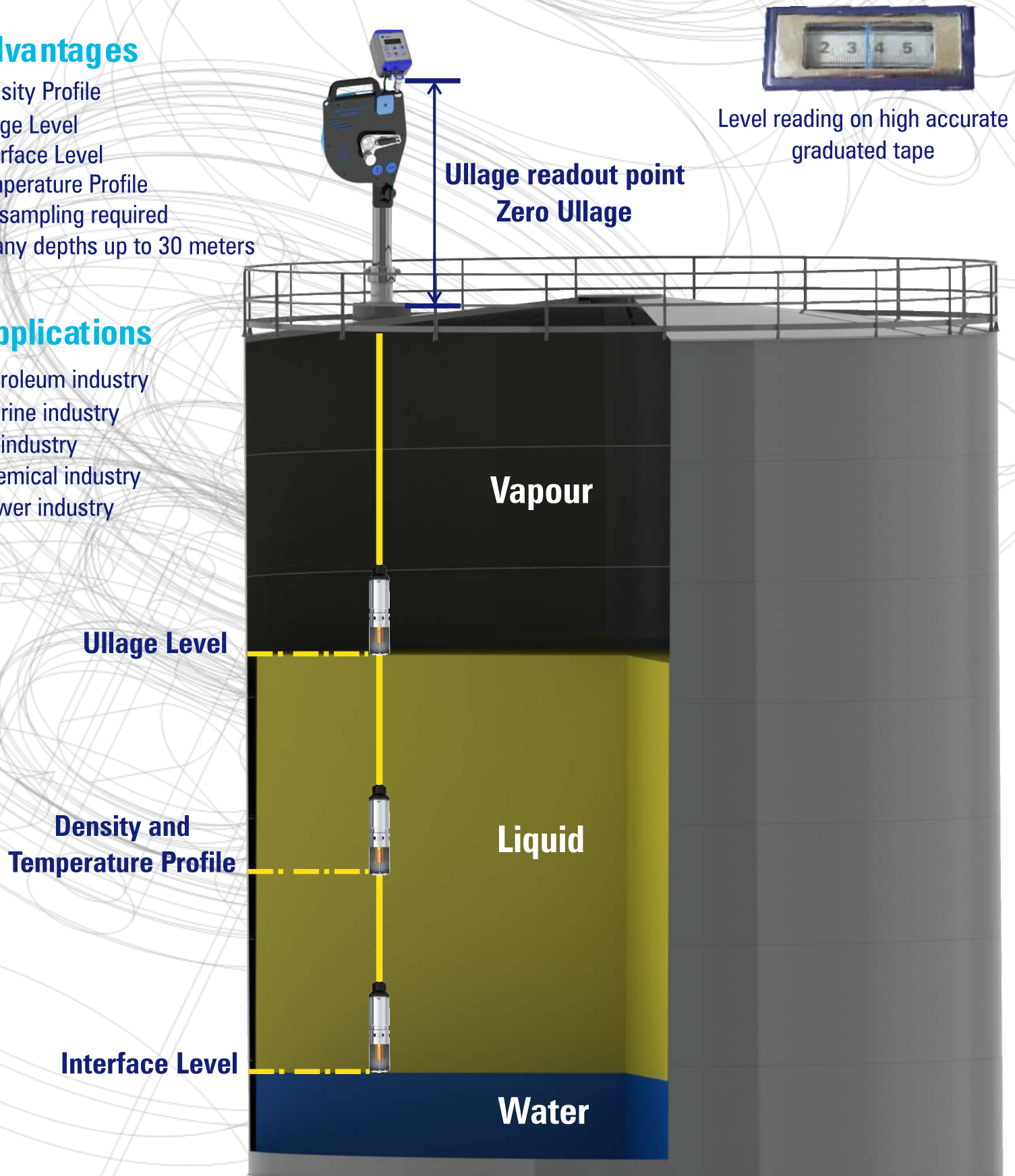
The portable density meter **DUTI-254H** for closed gas tight operations is designed for density and level measurements of any pure liquids directly in tanks, without sampling, at the depth up to **30 meters**.

Advantages

- Density Profile
- Ullage Level
- Interface Level
- Temperature Profile
- No sampling required
- At any depths up to 30 meters

Applications

- Petroleum industry
- Marine industry
- Oil industry
- Chemical industry
- Power industry



Specifications

Measuring range:

Density	0... 3 g/cm ³ (0... 3000 kg/m ³)
Temperature	-40... +85°C (-40... +185°F)
Level	Up to 30 m (up to 100 ft)

Accuracy:

Density	±0.0003 or ±0.0005 g/cm ³ (±0.3 or ±0.5 kg/m ³)
Temperature	±0.1°C (±0.2°F) or ±0.2°C (±0.4°F)
Ullage/Interface detector	±2 mm (±0.008")

Repeatability:

Density	±0.00015 or ±0.00025 g/cm ³ (±0.15 or ±0.25 kg/m ³)
Temperature	±0.01°C (±0.02°F) or ±0.1°C (±0.2°F)
Level	±1 mm (±1/16")

Resolution:

Density	0.0001 g/cm ³ (0.1 kg/m ³)
Temperature	±0.01°C (±0.02°F) or ±0.1°C (±0.2°F)
Level	1 mm (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 D1250
 Tape graduation - Metric /English
 Temperature in °C or °F

Ambient temperature

-40... +60°C (-40... +140°F)

Depth of submersion

Up to 30 meters (up to 100 ft)

Intrinsically safe:

Controller	ATEX II (2G) EEx ib [ia] IIB T4
Level block with sensor	ATEX II 1G EEx ia IIB T4

Power supply

NiMH 3.6V-1500 mAh

Operating time without charging

Appr. 12 hours

Dimensions, weight:

Controller	80 x113 x 60 mm (3.1 x 4.4 x 2.3"), 0.8 kg (1.7 lb)
Level block with sensor	635 x 234 x 60 mm, (25 x 9.2 x 2.3"), 5,2 kg (11.4 lb)

Temperature compensation

Automatic

Viscosity compensation

Automatic

Data handling

OLED Display (2x12) with backlight
 Local memory up to 3000 results
 Build in Bluetooth for data transfer to printer or PC

Delivery

Delivered in compact carrying case



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



Delivered in compact carrying case



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

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



LEMIS USA, Inc
 15556 Summit Park Dr., Suite 601
 Montgomery
 TX 77356, USA
 Ph.: +1 281 465 8441
 E-mail: info@lemis-usa.com

