

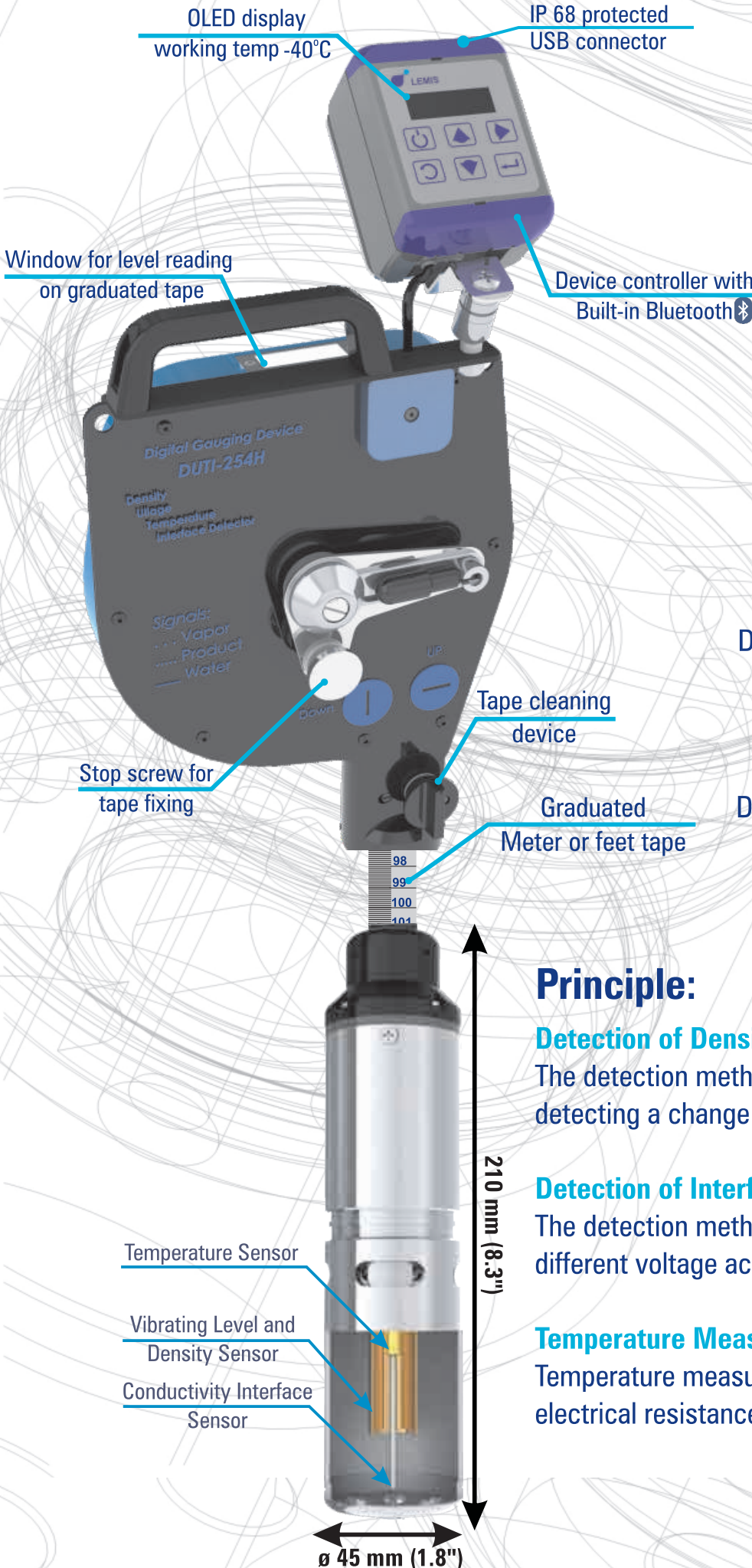


PORTABLE TANK GAUGING DEVICE

Density - Ullage Level - Temperature - Interface Level

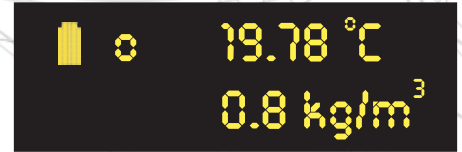
DUTI-254 Hermetic

DUTI-254H OVERVIEW



For Easy Distinguish:

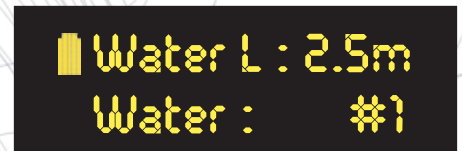
Displays Density and Temperature



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

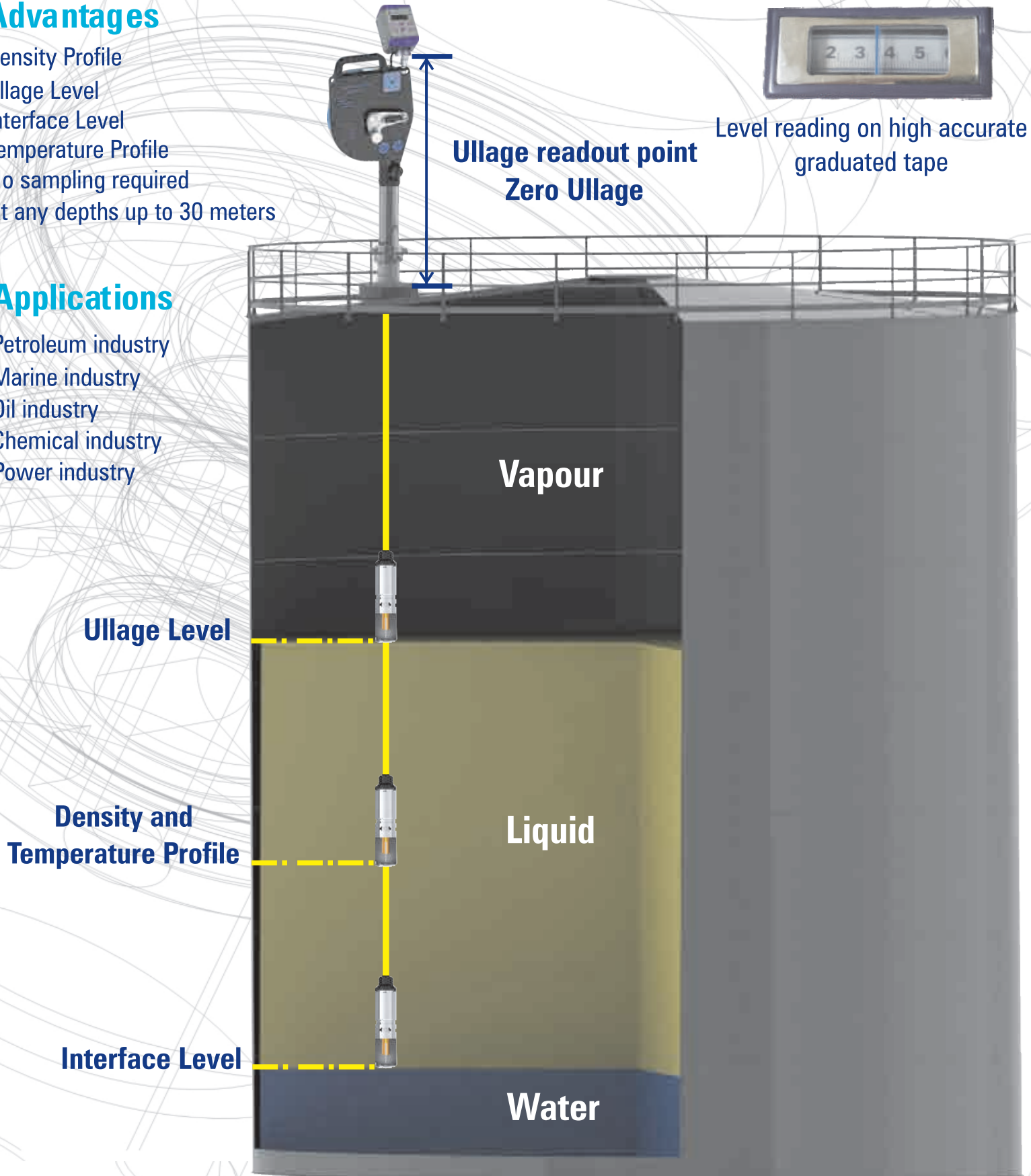
The portable density meter **DUTI-254H** for closed gas tight operations is designed for density and level measurements of any pure liquids directly in tanks, without sampling, at the depth up to **30 meters**.

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/cm ³ , kg/m ³ , lb/gal, lb/ft ³ ; 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-process.com



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