



## Portable electronic level gauge for restricted operation.

The HERMetric UTImeter Rtex is a portable liquid level gauge designed for level gauging of petroleum products under restricted operation. The sensor is calibrated once at the factory and does not require subsequent calibration. The temperature probe is a RTD element. The characteristics of the RTD are stored inside the sensor. The sensor is sending true temperature values to the electronic box. Therefore changing a sensor or a tape does not require a new calibration. The unit is used for custody transfer, inventory control measurement and free water detection on marine vessels. The HERMetric UTImeter Rtex has to be connected to a HERMetric vapour control valve fixed on the tank.

# HERMetric UTImeter Rtex

The HERMetric UTImeter Rtex is a portable liquid level gauge designed for restricted gauging of petroleum products. The unit is used for custody transfer, inventory control measurement and free water detection on marine vessels and shore tanks. The HERMetric UTImeter Rtex has to be connected to a HERMetric vapour control valve fixed on the tank.

The unit enables 3, optionally 4 measurements in one single operation:

- Ullage
- Temperature
- Oil-Water interface level
- Innage, Reference height (Visc version)



Storage tube SS1-Q2



Storage tube SS1-Q1



## A GAUGE DEDICATED TO YOUR APPLICATION:

### HERMetric UTImeter Rtex

- with 1" sensing probe, FKM gaskets for the main applications in hydrocarbons.

### HERMetric UTImeter Rtex Visc

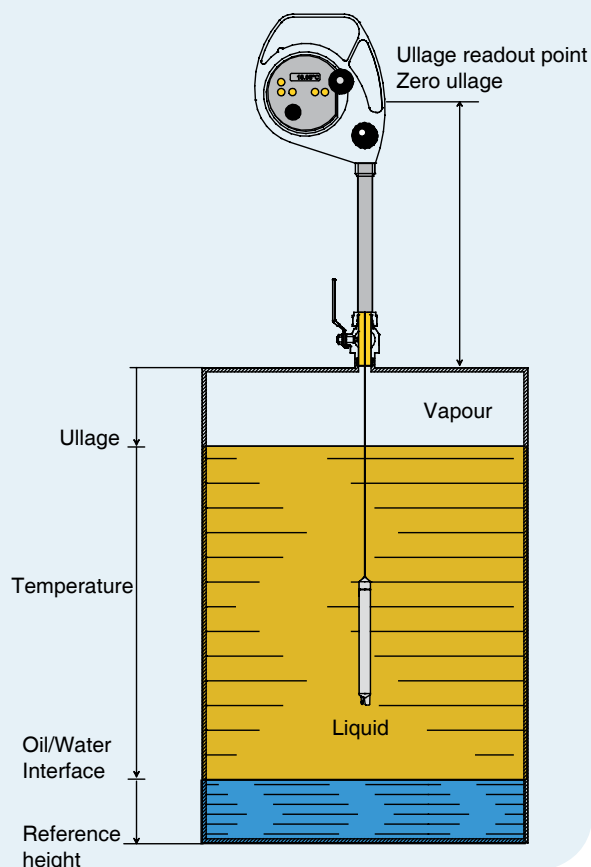
- with 2 Inch load on the sensing probe, recommended for operation in high viscous products or for innage measurements in hydrocarbons.
- Manual detection of tank bottom.

- ◉ IMO
  - ◉ Solas 74
  - ◉ MARPOL 73/78
- ◉ ISO, API, IP
- ◉ EC Directive 89/336/EEC
- ◉ EC Directive 94/9/EC
- ◉ EC Directive 96/98/EC
- ◉ ATEX, Factory Mutual, IECEx
- ◉ National authorities, (USCG, ..)
- ◉ All major classification societies

All HERMetric UTImeters are now equipped with the sensor "ULTRA" for use in low and high viscous liquids. The ULTRA sensing probe consists of a stainless steel tube terminated by a PEEK head. The sensing probe includes an ultrasonic liquid level sensor, a temperature sensor and a conductivity electrode. The sensitivity for ullage and interface measurement does not require any adjustment. The sensor is calibrated once at the factory and does not require subsequent calibration. The temperature transducer is a RTD element. The characteristics of the RTD element are stored inside the sensor. The sensor is sending true temperature values to the electronic box and display.



### Principle of installation



## TECHNICAL SPECIFICATIONS:

Accuracy of ullage-interface detection:	± 2 mm (± 0.08" approx.)
Ullage, interface indication:	Audible and Visible selectable
Tape length:	15 m/50 ft, 30 m/100 ft, 35 m/115 ft
Tape graduation:	Metric/English
Tape resolution:	1 mm / 1/16"
Tape accuracy:	± 1.5 mm/30 m (±1/16"/100 ft approx.)

### **Meets API MPMS Chap 3.1A and ISO 4512 requirements**

Temperature accuracy:	± 0.1°C (0°C to 70°C);
<b>Meets API MPMS Chap 7 request</b>	± 0.2°F (32°F to 158°F)

### **Meets ISO 4268 , IP PMM Part IV**

Ambient temperature range:	-20°C to 50°C / (-4°F to 122°F)
Temperature sensor measurement range:	-40°C to 90°C / (-40°F to 194°F)
Temperature measurement resolution:	0.01° or 0.1° selectable
Temperature reading:	°C or °F selectable
LCD Display:	8 characters with backlight
Power:	Approved 9V batteries
Weight with 15 meter / 50ft tape:	3.7 kg / 8.1 Lbs.

### **Hazardous environments approvals**

ATEX	II 1 G Ex ia IIB T4 / Tamb 50°C
Factory Mutual	CL I, DIV 1, C&D, T4 Tamb 50°C and CL I, ZN 0, AEx ia IIB T4 Tamb 50°C
IECEX	Zone 0, Ex ia IIB T4

***The information contained in this document is subject to changes without notice***

### **Honeywell Marine**

Enraf Tanksystem SA  
Rue de l'Industrie 2  
1630 Bulle  
Switzerland  
Tel: +41 (0) 26 919 15 00  
Fax: +41 26 91 91 505  
E-mail: tanksystem@honeywell.com  
www.tanksystem.com

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