



The HERMeTic UTImeter Otex is a portable electronic level gauge designed to operate under open conditions resulting in increased reliability and efficiency.

The unit is used for custody transfer, temperature verification, inventory control measurement and free water detection on petroleum and chemical storage tanks. The unit enables 3 (optionally 4) measurements in one single operation, ullage, temperature, oil-water interface level and detection of dip datum plate (viscous version). By increasing reliability and efficiency, Honeywell Tanksystem helps customers improve business performance.

# HERMetric UTImeter Otex

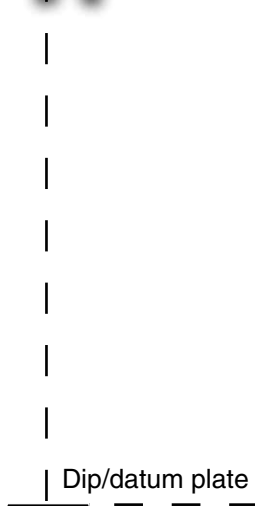
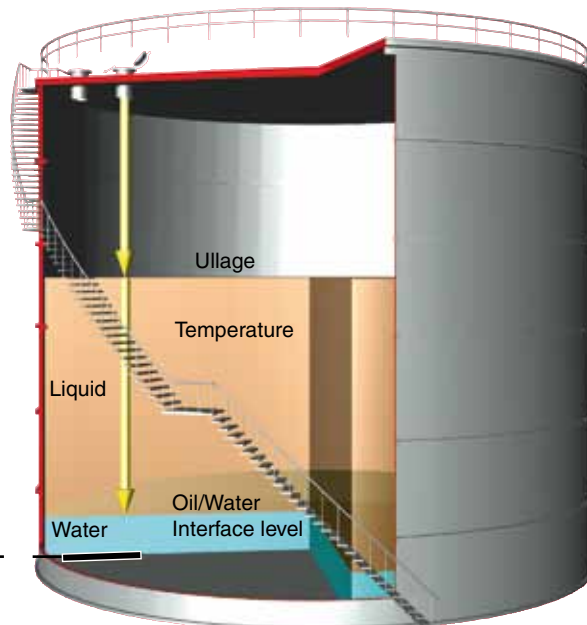
The HERMetric UTImeter Otex is a portable liquid level gauge designed to be operated under open conditions on petroleum and chemical tanks where open gauging is permitted. The characteristics of the RTD are stored inside the sensor. The sensor is sending true temperature values to the electronic box. 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 storage tanks. The HERMetric UTImeter Otex is set on the open gauging hatch.

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

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

## Visc version:

With load 500 gr. for high viscous products or manual detection of dip/datum plate. Reference height measurement



## Complies with:

- ISO, API, IP
- EC Directive 89/336/EEC
- EC Directive 94/9/EC
- ATEX, Factory Mutual, CQST
- GB/T 13236, 8927



- ISO
  - 4512
  - 3170
  - 4268
- API
  - MPMS Chap 3.1A
  - MPMS Chap 7
  - MPMS Chap 8.1
- IP
  - PMM Part III-1
  - PMM Part IV"

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.



**Low maintenance costs:**

Fully modular unit. Change tape, sensor or instrument unit yourself. Easy and detailed instructions in Operation and Service Manual.

**Benefits:**

- Continuous temperature reading.
- 100 % repeatability of measures.
- High accuracy and stability.
- Easy access for battery exchange.
- Sensor exchange without need of new calibration.
- No temperature drift. No degradation of the sensitivity due to sensor ageing.
- Tape cleaning devices on all units as standard.
- Sensor fitted with load 500 gr. for high viscous products
- Heavy sensor permits manual detection of dip/datum plate.
- Reference height measurement

**A GAUGE DEDICATED TO YOUR APPLICATION**

**HERMetric UTImeter Otex**

with 1 inch sensing probe and FKM tape connector for the main applications in hydrocarbons.

**HERMetric UTImeter Otex Visc**

with 2 inch load on the sensing probe, recommended for operation in high viscous products or for innage measurements in hydrocarbons or in corrosive liquids. Manual detection of dip datum plate.



**HERMetric UTImeter Otex \*option French plate**

with tightening mechanism to secure the units inside gauging pipes or dip hatches up to a diameter of 6 inch. Special sensor protection to avoid damages of sensor head when touching the bottom of the tank.



for gauging pipe up to 6 inch diameter

## TECHNICAL SPECIFICATIONS:

Ullage, interface indication:

Tape length:

Tape graduation:

Tape resolution:

Tape accuracy:

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

Temperature accuracy:

**Meets API MPMS Chap 7 request**

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

Ambient temperature range:

Temperature sensor measurement range:

Temperature measurement resolution:

Temperature reading:

LCD Display:

Power:

Weight with 15 meter / 50ft tape:

**Hazardous environments approvals**

ATEX

Factory Mutual

China:

IECEX:

Audible and Visible selectable signals

15 m/50 ft, 30 m/100 ft, 35 m/115 ft

Metric/English

1 mm / 1/16"

± 1.5 mm/30 m (±1/16"/100 ft approx.)

± 0.1°C (0°C to 70°C);

± 0.2°F (32°F to 158°F)

-20°C to 50°C / (-4°F to 122°F)

-40°C to 90°C / (-40°F to 194°F)

0.01° or 0.1° selectable

°C or °F selectable

8 characters with backlight

Approved 9V batteries

3.5 kg / 7.7 Lbs.

II 1 G EEx ia IIB T4 / Tamb 50°C

CL I, DIV 1, C&D, T4 Tamb 50°C and

CL I, ZN 0, AEx ia IIB T4 Tamb 50°C

CQST ExialIBT4

Zone 0 Ex ia IIB T4 / Tamb 50°C

Level reading on high accurate graduated tape  
+/- 1.5 mm over 30 meter

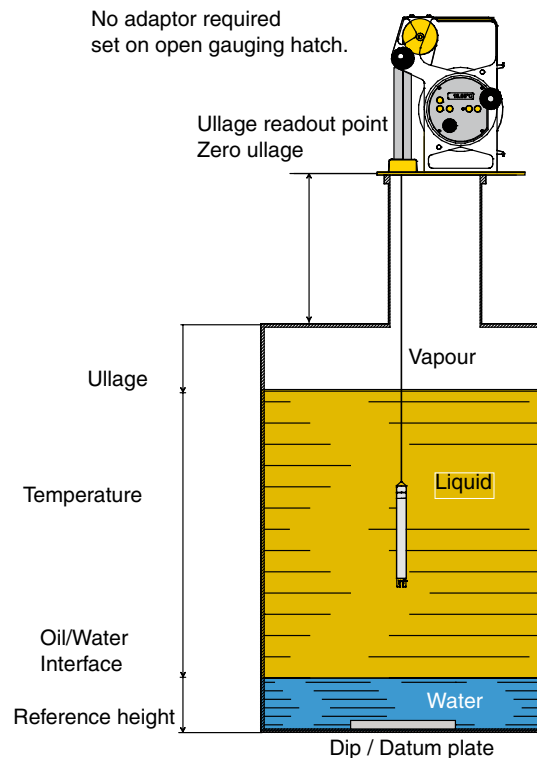


All HERMetric portable level gauges are delivered with a **tailor made plywood carrying case as a standard**. This special box avoids any damage during transport and storage.



## PRINCIPLE OF INSTALLATION

No adaptor required  
set on open gauging hatch.



**Honeywell**

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