Portable electronic level gauge for closed gas tight operation.

The HERMetic UTImeter Gtex is a portable electronic level gauge for closed gas tight operation resulting in increased safety and efficiency. The unit is used for custody transfer, temperature verification, inventory control measurement and free water detection on tankers. Connected to a HERMetic vapour control valve, the UTImeter Gtex avoids any gas release during operation and enables three measurements in one single operation: ullage, temperature, oil-water interface level.
HERMetic UTImeter Gtex

The HERMetic UTImeter Gtex is a portable gas tight liquid level gauge designed for closed gauging of hydrocarbons and chemicals. The unit is used for custody transfer, inventory control measurement and free water detection on marine vessels. Connected to a HERMetic vapour control valve fixed on the tank, the HERMetic UTImeter Gtex avoids any gas release during operation.

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

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

A GAUGE IN DIFFERENT VERSIONS DEDICATED TO YOUR APPLICATION:

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

HERMetic UTImeter Gtex Chem
- with 1" sensing probe, FFKM gaskets and FFKM tape connector for use in corrosive liquids. Refer to IBC Code of chemical applications.

HERMetic UTImeter Gtex Visc and HERMetic UTImeter Gtex Chem 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 tank bottom.

Installation, connection and references for the new UTImeter family are fully compatible with previous HERMetic UTI/GT3 type of equipment.

"A closed system exists when a marine tank vessel does not permit the direct exposure and/or release of the tank content into the atmosphere under normal operating conditions." (API MPMS 17.2 A.4.1.)
ULTRA SENSING PROBE

Benefits:
- 100% repeatability of measures.
- Continuous temperature reading.
- High accuracy and stability.
- Chemically resistant to corrosive liquids (Chem version).
- Easy access for battery exchange.
- **Sensor exchange without need of new calibration.**
- Low weight for easy operation and carry around.
- No temperature drift. No degradation of the sensitivity due to sensor ageing.
- Interchangeable adapters for connection to different vapour control valves.
- Tape cleaning devices, window wiper and tape protection on all units as standard.

Low maintenance cost:

Storage tube SS1-Q2  
Storage tube SS1-Q1  
Storage tube SS2-Q2

Interchangeable adapters for connection to different vapour control valves

Sensor fitted with additional load, recommended for operation in high viscous products or for innage measurements

Type: C2-SS-SEC  
Type: C1-SS-W

Mechanical tape cleaning device as standard on all UTImeter
Benefits

- 100% repeatability.
- No adjustment of the sensitivity required.
- Small diameter for use on 1" HERMetic valves.
- Chemically resistant to corrosive liquids (Chem version).
- High mechanical stability.
- No degradation of the sensitivity due to ageing of the sensor.

All HERMetic 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

Special tape protection to protect the tape from inadvertent cuts by closing the valve while the sensor is inside the tank. This mechanical safety device prevents damages on tape and reduces repair costs.
Window wiper as standard on all UTImeter Gtex

Tape cleaning device as standard on all UTImeter

Easy access to the tape allows fast cleaning. No screws, only five easy to open lid fastener

Level reading on graduated tape through window

Tape protection tube

Buzzer on/off button

LCD display with backlight
TECHNICAL SPECIFICATIONS:

Accuracy of ullage-interface detection: ± 2 mm (± 0.08” approx.)
Ullage, interface indication: Audible and Visible selectable
Maximum tank overpressure: 0.3 bar (4.4 psi)
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);
Meets API MPMS Chap 7 request
Temperature sensor measurement range: -20°C to 50°C / (-4°F to 122°F)
Temperature measurement resolution: 0.01°C or 0.1°C selectable
Temperature reading: °C or °F selectable
LCD Display: 8 characters with backlight
Power: Approved 9V batteries
Weight with 15 meter / 50ft tape: 4.4 kg / 9.7 Lbs.

Hazardous environments approvals

ATEX II 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

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