

DrinkVACQ

DrinkVACQ temperature data logger:
Direct reading of pasteurization value in bottles



DrinkVACQ is specially designed for drinks; it allows **instant visualization on a digital screen, of maximum temperature and of pasteurization value inside bottles** during thermal treatments.

DrinkVACQ 1Tc

1 Pt1000 type temperature sensor at the end of a rigid probe
 (a fixture enables positioning at a specific height inside the bottle)

DrinkVACQ 1T-Tc

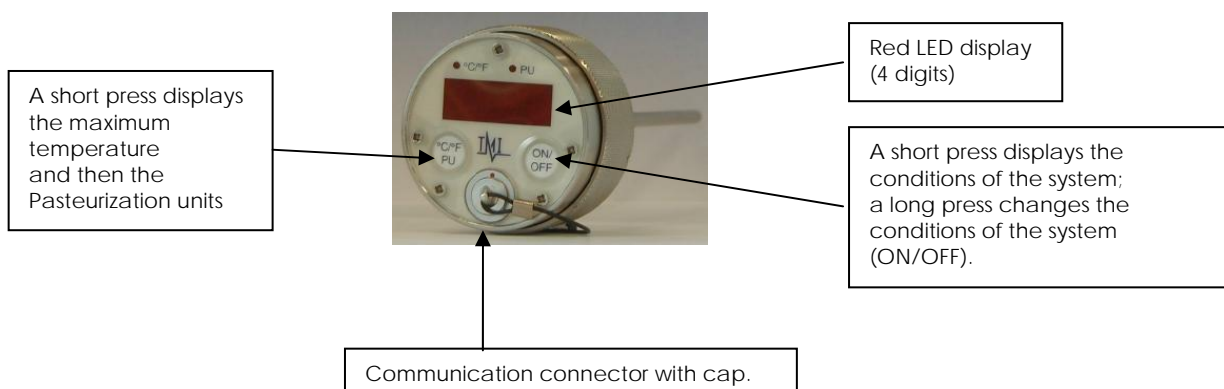
As above.
 Plus, a second sensor records outside temperature during the operation.

DrinkVACQ 1Td

1 Pt sensor at the end of a flexible probe
 (which allows a space of 25 mm above the bottle).

DrinkVACQ 1T-Td

As above.
 Plus, a second sensor records outside temperature during the operation.



DRINKVACQ 1Tc Positioning kit 1 and ball clamp (fruit juice pasteurization...)

When used with the « ball clamp » adaptor, the DrinkVACQ system can be easily attached to most any [glass bottle](#). The DrinkVACQ is mounted in place of a [crimped on cap](#) and only requires [61 mm](#) of clearance above the bottle.

The positioning kit is fabricated from stainless steel and has a maximum diameter of [120 mm](#).

The Platinum-1000 temperature sensor is located at the end of a probe which is positioned at the correct height inside the bottle. The DrinkVACQ allows accurate pasteurization calculations without affecting your normal process.

TMI can also offer the DrinkVACQ/1T-Tc with a second temperature sensor located external to the bottle to record the atmospheric temperature encountered during the process. This set enables you to control [pasteurization cycles under low pressure](#) (fruit juice pasteurization ...).



DRINKVACQ 1Tc Positioning kit 2 for high pressure applications

The DrinkVACQ system is pressed on any [glass bottleneck](#). The DrinkVACQ is mounted in place of a [crimped on or screwed cap](#) and only requires [61 mm](#) of clearance above the bottle.

The positioning kit is fabricated from stainless steel and has a maximum diameter of [120 mm](#).

The Platinum-1000 temperature sensor is located at the end of a probe which is positioned at the correct height inside the bottle. The DrinkVACQ allows pasteurization calculations without affecting your normal process.

Option: DrinkVACQ/1T-Tc may be equipped with a second temperature sensor located external to the bottle to record the atmospheric temperature encountered during the process.

This set enables you to control [pasteurization cycles under high pressure](#) (beer pasteurization ...).



DRINKVACQ 1Td Positioning kit 3 for small pasteurizers

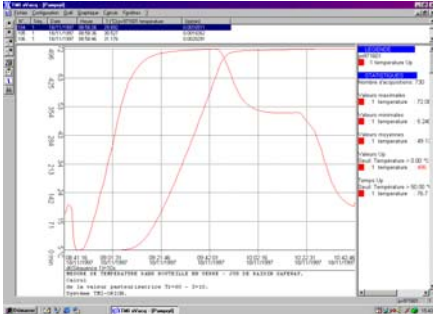
Thanks to its remote probe, the DrinkVACQ system can be easily pressed on any [glass bottleneck](#). The DrinkVACQ is mounted in place of a [crimped on or screwed cap](#) and only requires [25 mm](#) of clearance above the bottle.

The positioning kit is fabricated from stainless steel and has a maximum diameter of [180 mm](#).

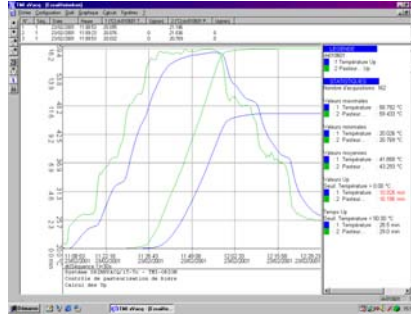
Option: DrinkVACQ/1T-Td is also available with a second temperature sensor located external to the bottle to record the atmospheric temperature encountered during the process.

This set enables you to control pasteurization cycles inside [small pasteurizers](#).





Exemple 1 : fruit juice pasteurization



Exemple 2 : beer pasteurization

Metrology

- Operating range in temperature: from -10°C to 80°C
- Uncertainty type in relation to national standard: +/- 0,1°C from 0°C to 80°C
- The uncertainties correspond to 2 standard deviations.
The uncertainties are calculated taking into account the various significant error sources including the calibration probes, the equipments, the environment conditions, the logger influence, the repeatability, etc...
- Resolution: 0.012°C
- Annual recalibration and check up recommended. Recalibration possible by the customer.
- Each logger is calibrated and checked up.

Technical specifications

- Material: 304L stainless steel and polyester front.
- Dimensions: height 61mm, diameter 55mm
- Watertight when immersed IP67 (under 10cm of water maximum)
- Integrated Pt1000 thermometric sensor.
- Pt1000 remote thermometric sensor or at the end of a rigid probe
- Calculation of Pasteurization Units: Tr and Z can be set by the user
- Incertainty: +/- 3,3% on PU (Z=7°C and ΔT= +/-0.1°C)
+/- 2,3% on PU (Z=10°C and ΔT= +/-0.1°C)
- Display resolution: Temperature 0.1/PU 1
- Memory capacity: 16 000 acquisitions
- Programmable acquisition rate: minimum 1 second, maximum 59 minutes and 59 seconds.
- Programmable acquisition duration.
- Autonomy superior to 500 000 acquisitions.
- Power supply replaceable by the user.
- Non volatile memory (EEPROM)

Software operating conditions

- Data transfer with a communication interface connected to the serial or USB port.
- Operates under Windows® 98/Me/NT/2000/XP

TMI-Orion

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