

## PICOVACQ Humidité

Measure temperature and humidity during your processes, even in the smallest packagings.

PicoVACQ certainly is the most advanced family of products from TMI-Orion. The **latest electronic technologies** are used, while **performances** are boosted and dimensions reduced to the **smallest loggers possible**.



Specially designed for clean industries, all the models of this family enable quality control and process validation of food or pharmacy industries.

**PicoVACQ HT** (humidity and temperature), also available in Ex version for applications in explosive environment. As an example, this PicoVACQ is used in the validation of Ethylen oxide sterilization.

**PicoVACQ HT :** 1 Pt1000 type internal temperature sensor  
1 capacitive humidity sensor

**Ex Option** PicoVACQ HT is available in Ex version for processes in explosive environment.

### Metrology

Operation range and logger length depending on the battery used:

Ø 15 mm	Battery	Operation range	L. in mm
PVQ HT and PVQ HT Ex (250 hours for a 5 second-rate)	015M	From -40°C to +85°C	59 mm
PVQ HT (600 hours for a 5 second-rate)	015PW	From -40°C to +85°C	67 mm

- Overall calibration uncertainty :
  - In temperature +/- 0.1°C from 0°C to 80°C (+/- 0.05°C upon request)
  - +/- 0.2°C from -30°C to 0°C
  - In humidity +/- 3 %HR (1% possible if Cofrac calibration)
  - The uncertainty corresponds to two standard deviations.
- Resolution :
  - In temperature +/- 0.02°C
  - In humidity +/- 0.01 %HR
- Each logger can be calibrated and checked at the temperature points needed by the users.
- PicoVACQ HT cannot be used in steam autoclave.

NOTA. An annual checkup with our after-sale department is recommended: replacement of water tightness o-rings, global functional checkup, metrological adjustments.

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#### Technical specifications

- External material biocompatible and sterilizable: 316 L stainless steel.
- Temperature sensor : Pt1000
- Capacitive humidity sensor
- Memory capacity: 8 000 acquisitions by measurement channel
- Acquisition rate: from 1 second to 59 minutes and 59 seconds
- Programmable acquisition duration
- Programmable recording start from a date or on temperature threshold
- User replaceable battery
- 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
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