Pressure and temperature data logger

PicoVACQ Pressure

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

PicoVACQ is the most miniaturized family of products from TMI-Orion.
The latest electronic technologies are used, while performances are boosted and dimensions reduced.
Specially designed for clean industries, all the models of this family enable quality control and process validation as in sterilization control inside very small packaging.

PicoVACQ PT

Ex Option

• 1 internal platinum temperature sensor
• 1 piezoresistive pressure sensor
PicoVACQ PT is available with Ex option for processes in explosive environment (up to 70°C).
Yet, PicoVACQ PT with Ex option can be used in steam sterilization processes provided batteries are exchanged.

Metrology

• **Operating range and loggers length according to batteries used:**

Diam. 16 mm	Battery	Operating range	L. mm
PVQ PT (5, 15 or 30 bar)	015P 015PV	0°C to 140°C	35 mm 38 mm
PVQ PT (5, 15 or 30 bar)	015PW 015PWV	-30°C to 85°C	60 mm 63 mm
PVQ PT Ex	015P	0°C to 70°C	35 mm

▣ **Overall calibration uncertainties:**
- In temperature .... +/- 0.1°C from 0°C to 140°C (+/-0.05°C upon request)
- In pressure .... +/- 30 mbar from 30 mbar to 15 bar
.... +/- 100 mbar at 30 bar
The mentioned uncertainty corresponds to 2 standard deviations.
▣ **Resolution and noise:**
- In température .... 0.02°C
- In pression .... 0.7 mbar

Each logger can be calibrated and checked up at the temperature and pressure points corresponding to the users' needs.

Technical specifications

▣ **External material biocompatible and sterilizable:** 316 L Stainless steel
▣ **Temperature sensors:** Pt1000
▣ Piezoresistive pressure sensor
▣ **Memory capacity:** 8 000 acquisitions by measurement channel
▣ **Acquisition rate:** minimum 4 acquisitions per second, maximum 59 minutes and 59 seconds
▣ Programmable acquisition duration
▣ Programmable recording start from date, hour, minute or temperature threshold
▣ User replaceable battery
▣ Non volatile memory (EEPROM)

Software operating conditions

▣ Data transfer with a communication interface connected to the USB port.
▣ Operates under **Windows Vista 7/ 8/ 10**

NOTA :
An annual checkup with our after-sale department is recommended: replacement of watertighness o-rings, global operational check, metrological adjustments.

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