SC METROMAT SRL

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Data logger, PicoVACQ TH

Temperature logger

PicoVACQ Thermocouple



Measure temperature in your thermal processes up to 1300°C with an extra small thermocouple logger.

PicoVACQ 1TH is a cylindrical logger with one thermocouple channel. With its very small diameter, its measurement range up to 1300°C and its operating range up to 140°C, it is a solution specially designed for thermal processes requiring both temperature measurement in industrial environment and quick response time.
A thermal shield adapted to the application can be used for temperatures beyond 140°C up to 1300°C.

Among the most common applications:

- Bottle depyrogenation in pharmaceutical industry.
- Internal and external varnish polymerization of aluminum bottles and sprays in packaging industry.
- All tube manufacturing processes in metal industry like pipe spinning, annealing, hot piercing, coating, etc…



Operating range

- From -40°C to +140°C

For temperatures above 140°C, thermal protection necessary

Metrology

- **Calibration uncertainty:** +/- 0.1°C from 0°C to 140°C

The uncertainties are calculated taking into account the various significant error sources, including the calibration probes, the equipment, the environmental conditions, the influence of the logger, repeatability, etc…

- **Temperature resolution and noise:** 16 bit converter, resolution : <±0.1 °C
- Each logger can be calibrated and checked at temperature points corresponding to the user's needs.
- Type K thermocouple (full scale 1300°C) or T type (full scale 400°C)

Available option

- **10 Hz**

Technical specifications

- External material: 316 L stainless steel for logger body
- **Dimensions :**

PicoVACQ 1TH (including connector)	Height		Diameter
Thermocouple type	*T*	*K*	15 mm
015P battery	102 mm	105 mm	
015PW battery	127 mm	130 mm	
016PTA battery	149 mm	152 mm	16 mm

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PicoVACQ Thermocouple



- **Temperature sensors:** 1 connected thermocouple element and 1 Pt1000 platinum sensor for cold junction and internal temperature
  Thermocouple according to specifications
- **Memory capacity:** 32 500 acquisitions divided by number of measurement channels
- **Programmable acquisition rate:** minimum 1 second, maximum 59 minutes and 59 seconds.
- Programmable acquisition duration
- Programmable recording start by date, hour, minute.
- High temperature battery replaceable by the user.
- **Battery life:** Varies with acquisition period and use conditions:
  - 150 hours for a 5-second rate (015P battery)
  - 80 hours for a 1-second rate (015P battery)
- Nonvolatile memory (EEPROM)
- Compliant with regulations: EN 61326-1 :2006, FCC Part 15, ICES 001

Software operating conditions

- Data transfer with a communication interface connected to the USB port.
- Operates in **Windows® XP (SP3)/VISTA/7/8.**
- TMI-ORION software (logger programming, registered data reading…)

NOTA :
A yearly checkup with our after-sale department is recommended: replacement of water tightness O-rings, overall operating checkup, metrological adjustment.



NOTA: Aceasta fisa a fost realizata sub rezerva modificarilor ulterioare de ordin tehnic sau a erorilor de editare.

Fotografia are caracter informativ.

NOTE: Products and specifications are subject to change without prior notice .Pictures may differ from original.