Temperature logger

NanoVACQ Thermocouple



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

NanoVACQ 3TH is a cylindrical logger with three thermocouple channels. With its 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 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...



Metrology

Technical

specifications





- Optional memory extension (261 700 acquisitions divided by number of channels)
- Operation range: From 0°C to 140°C
- Thermocouple measurement range: Type K up to 1300°C
- Resolution and noise: 16 bit converter, resolution : <±0.1 °C
- Calibration uncertainty: +/- 0.1°C from 0°C to 140°C
- External materials: 316 L stainless steel
- Temperature sensors: Pt1000 for cold junction and internal temperature Thermocouple according to specifications
- Dimensions: Diameter: 31 mm Height: 75 mm
- Memory capacity: 65100 acquisitions divided by number of channels
- Programmable acquisition rate: minimum 1 second, maximum 59 minutes and 59 seconds.
- Programmable acquisition duration
- Programmable recording start by date, hour, minute.
- Battery replaceable by the user.
- Battery life: Varies with acquisition period and use conditions: 700 hours for a 5-second rate
- 340 hours for a 1-second rate
- Nonvolatile memory (EEPROM)
- 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.



Software operating

conditions

TMI-ORION - Parc de Bellegarde - Bât. C - 1, chemin de Borie - 34170 Castelnau-le-Lez - FRANCE Tel +33 (0)4 99 52 67 10 - Fax +33 (0)4 99 52 67 19 - www.tmi-orion.com

TMI-USA - 11491 Sunset Hills Rd., Suite 310 - Reston, VA 20190 - USA Tel +1 703 668 0114 - Fax +1 703 668 0118 - www.tmi-orion.com