

Temperature and air flow data logger

NanoVACQ Ad

Measure of temperature and air flow for drying processes

NanoVACQ Ad

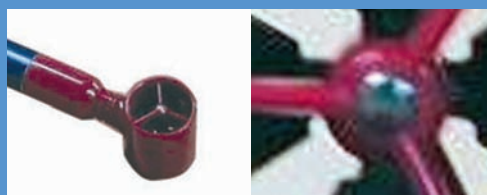
NanoVACQ Ad-Tc

NanoVACQ Ad-Td

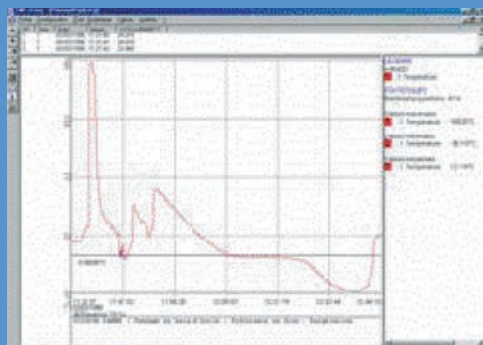
For quick and accurate tuning of the drying process.

NanoVACQ Ad enables the simultaneous measurement of temperature and air flow in dryers, or also the temperature inside the product and the enviroining air flow.

- 1 removable wing flow sensor
- NanoVACQ Ad-Tc 1 removable wing flow sensor + one single Pt1000 sensor at the end of a rigid probe D.3>1.9 mm (hybrid) or D.3mm (length upon request between 10 and 120 mm).
- 1 removable wing flow sensor + one single Pt1000 sensor at the end of a rigid probe D.3 mm and length upon request between 20 and 100 mm, located at the end of a flexible cable (D. max 5 mm x length upon request between 100 et 1000 mm).



Metrology



- **Operation range**
Temperature..... from -55°C to 140°C
Air flow..... from 0 m/s to 20 m/s
- **Uncertainty**
Temperature..... +/- 0.1°C from 0°C to 140°C
Air flow..... 5% FS (+/- 1 m/s)
The uncertainty corresponds to 2 standard deviations.
- **Resolution and noise**
Temperature..... 0.04°C
Air flow..... 0.01 m/s
- Each logger can be calibrated and checked at the temperature points corresponding to the users' needs.
- Annual recalibration and check-up recommended.

Technical specifications

- Material of the logger body: 316 L stainless steel
- Dimensions of the body: height 39 mm, diameter 31 mm.
- Temperature sensor: Pt1000
- Air flow sensor: wing flow sensor.
- Memory capacity: 48 000 acquisitions divided by the 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
- User replaceable high temperature battery
- Non volatile memory (EEPROM)

Software operating conditions

- Data transfer with a communication interface connected to the USB port.
- Operates under Windows® XP(SP3)/VISTA/7

NOTA:

A yearly maintenance is advised for O-rings replacement, recalibration and adjustment.



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