DATA SHEET
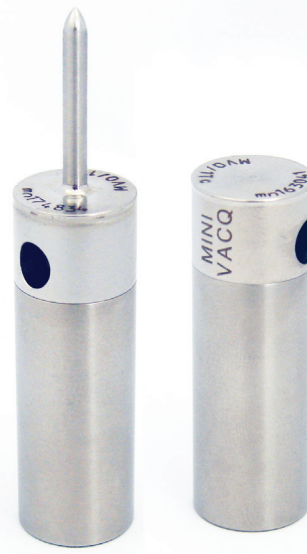# TMI-Orion
MiniVACQ

Temperature measurement in thermal processes from −40°C to +100°C

MiniVACQ is a small autonomous data logger for temperature measurement. It is equipped with one platinum sensor.
Calibration with optional certificate.

METROLOGY

	Operating range	Resolution	Uncertainty*
MiniVACQ 1T	From -40°C to +100°C	0.02°C	± 0.5°C (± 0.1°C optional)
MiniVACQ 1Tc			

Each logger can be calibrated and adjusted at the temperature points corresponding to the user's needs with optional calibration certificate.

(*) The specified uncertainties correspond to two standard deviations. 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…

FUNCTIONS

- Start set up: immediate or delayed
- Time stamped measurement data
- Battery level alert with Qlever software

MiniVACQ 1T

MiniVACQ 1Tc

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TECHNICAL SPECIFICATIONS

Model	Number of channels	Probe type	Probe dimensions	Probe tip	Water tightness
MiniVACQ 1T	1	Internal			●
MiniVACQ 1Tc	1	Rigid (SS 316L)	D. 3 mm / L. 10, 15, 20 or 30 mm	Sharp or round	●

Material	316L Stainless steel
Logger body dimensions	D.15 mm, H.39.5 mm
Memory capacity	16 000 acquisitions
Acquisition rate	Programmable: minimum 1 second, maximum 59 minutes and 59 seconds
Program duration	Programmable: days, hours, minutes
Recording	Programmable start: by date
Power	User replaceable battery pack
Connectivity	USB wired interface to the PC

AUTONOMY

The MiniVACQ is powered by a battery pack; its autonomy depends on the environment and the operational conditions of the application (extreme temperatures, data acquisition rate).

As a result of the variety of environments and operational conditions, TMI-Orion does not guaranty the battery lifetime and recommends that the user determine the battery lifetime according to his own process conditions and experience.

SOFTWARE AND RELATED PRODUCTS

The MiniVACQ is used with Qlever software.

Qlever software platform: data acquisition, management and visualization of data from TMI-Orion data loggers.

Qlever is installed on a PC and operates under Windows® Vista/7/8/10. Data transmission and visualization are done after the industrial process.

DELIVERABLES

The MiniVACQ Temperature solution usually includes the following items:
- The MiniVACQ Temperature data logger with a battery pack
- The MiniVACQ Temperature calibration certificate (optional)

- The MiniVACQ Temperature configuration and calibration file
- Qlever software platform (to be ordered separately)
- A USB wired interface to the PC (to be ordered separately)
- A transport case (optional – to be ordered separately)

SERVICES

Maintenance: TMI-Orion recommends annual preventative maintenance and calibration service for the replacement of o-rings, functional checking, calibration and adjustment.

Accessories: The battery packs, engineered by TMI-Orion, are replaceable by the user and are referenced in the specific datasheet on our website.

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