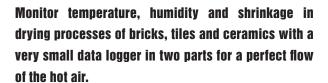
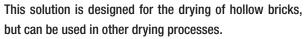
DATA SHEET TMI-Orion

CeriDry Mini Split

Temperature, humidity and shrinkage data logger



The CeriDry Mini Split is an autonomous data logger equipped with one temperature sensor, one humidity sensor and one rectractometer. This data logger is made in two parts: the retractometer is separated from the temperature and humidity data logger by a high-temperature cable. Its very small size is optimized to enter in even more challenging locations where space is limited.



The CeriDry Mini Split correlates the changes in relative humidity and air temperature with the shrinkage of bricks, tiles or ceramics during the drying process.

It also enables the accurate evaluation of drying of a brick or tile.



	Operating range	Measurement range	Resolution	Uncertainty*
Temperature	- 30°C to +140°C	0°C to +140°C	0.04°C	± 0.1°C
Humidity	0 to 100 % RH non condensed	2 to 98 % RH	0.05 % RH	± 3.5 % RH
Shrinkage		0 mm to 25 mm	0.01 mm	± 1 mm

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

*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
- Memory set up: stop at maximum capacity / loop writing
- Time stamped data
- Battery level alert with Qlever software



TECHNICAL SPECIFICATIONS

Material	Stainless Steel		
Dimensions of the temperature and humidity data logger part	Diameter 33 mm, height 57 mm		
Dimensions of the retractometer part	External diameter 9.52 mm, height 68.7 mm, + 28.0 mm mechanical travel		
Dimensions of the remote retractometer cable	Up to 1 meter		
Temperature sensor	PT1000		
Humidity sensor	Capacitive		
Shrinkage measurement	Linear potentiometer (Optional custom mechanical fixtures based on customer application.)		
Memory capacity	12 000 acquisitions per measurement channel		
Memory capacity with Big Memory option	73 500 acquisitions per measurement channel		
Acquisition rate	Programmable: min. 1 second, max 59 minutes and 59 sec.		
Program duration	Programmable: days, hours, minutes		
Recording	Programmable start: by date, hours, minutes		
Power	User replaceable battery pack		
Connectivity	USB wired interface to the PC		

AUTONOMY

The CeriDry Mini Split is powered by a battery pack; its autonomy depends on environment and operational conditions of the application (extreme temperatures, 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

CeriDry Mini Split is used with Qlever software platform. 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 CeriDry Mini Split system usually includes the following items:

- The CeriDry Mini Split logger with a battery pack
- The CeriDry Mini Split calibration certificate
- The CeriDry Mini Split configuration and calibration file
- A USB wired interface to the PC (To be ordered separately)
- Qlever software platform (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 documents available on our web site.

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