

# Ceramics Bricks Tiles



## YOU NEED TO MONITOR YOUR MANUFACTURING PROCESSES?

**TMI-Orion** will help you find the best technical solutions for measuring all the physical parameters you are dealing with. An evolving data processing software will assist you in monitoring and even controlling your processes.



### TEMPERATURE, AIR FLOW, HUMIDITY, SHRINKAGE, WEIGHT

Consider that TMI-Orion has a solution for each one of these parameters and can give you the possibility of recording several of them with the same measurement system. This gives you a perfect way of correlating the different parameters all together.

#### DRYING

- Temperature, Humidity, Shrinkage ..... CeriDry
- Temperature, Shrinkage ..... High-T-Dry
- Temperature, Air Flow ..... NanoVACQ Ad Td
- Air Flow ..... NanoVACQ Ad
- Weight, Temperature ..... DryBal
- Temperature for mapping ..... VACQ Flat

#### CURING

- Temperature ..... VACQ II



#### CeriDry

The Ceramic drying process data logger, **CeriDry** enables correlation between humidity variation, air temperature with shrinkage of tiles and bricks while they dry. It also gives accurate evaluation of the drying process between two parts of the same brick or tile.



#### High-T-Dry

For high temperature dryers, TMI-Orion has designed a ceramic drying process data logger for monitoring shrinkage and temperature up to 250°C, **High-T-Dry**.



#### NanoVACQ Ad

The **NanoVACQ Ad** is an air flow data logger specially designed for bricks and tiles industry needs during drying process. It enables measurement of temperature and air flow simultaneously inside dryers, or even temperature inside the product.

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## DryBal

**DryBal**, a ceramic weight data logger, enables temperature and weight recording during drying process.



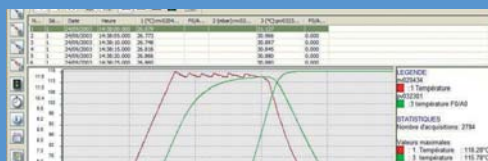
## VACQ Flat

The **VACQ Flat**, with its 16 thermocouple channels and its small size may be used to create a mapping of temperature inside dryers.



## VACQ II

The **VACQ II**, a ceramic curing data logger, enables the measurement of temperature during ceramics, tiles and bricks curing cycles, up to 1200°C. It has 8 to 16 type K thermocouples (supplied with the data logger).



## xVACQ software

The specific **xVACQ software** with Bricks/Ceramics option displays temperature in your curing and drying processes, but also enables association of tunnel profiles : wagon size, sensors positioning, pace duration, position of equipments (burners, hot air fans). Moreover, for each acquisition, a temperature screen gives you the value and position of the cold spot.

## Process control

*VACQ II, VACQ Flat and CeriDry are available in **Radio Transmission** versions, therefore allowing not only a real time visualisation of data during cycle but also on line control of your process. TMI-Orion will provide you with hardware and software means for controlling your process*



*Please find in the following pages further information on our offer for ceramics, tiles and bricks industry.*