

# Temperature data logger

## VACQ xFlat



Measures temperature at various points for the control of thermal processes.

### VACQ xFlat

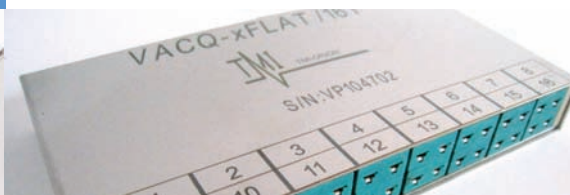
In order to fit into flat access furnaces, TMI-Orion has designed **VACQ xFlat**, particularly appreciated when monitoring temperature in dry heat processes.

It is protected by a thermal shield when temperature exceeds +150°C.

- 4, 8, 4x2, or 16 thermocouple channels and 2 internal reference channels (1 for cold junction)

#### Radio option: real time visualization

VACQ xFlat Radio (available with 3, 7, 8 (2x4 channels) or 16 channels) transmits in real time, by radio, the data measured during the process. The data are directly readable on your computer screen.



### Metrology

#### • Operation range

without thermal protection, from 0°C to 140°C (peaks at 150°C)  
for temperatures beyond 140°C, thermal protection upon request

#### • Resolution and noise

0.1°C for type K thermocouples (full scale 1300°C) or type T thermocouples

#### • Material: 316 L stainless steel

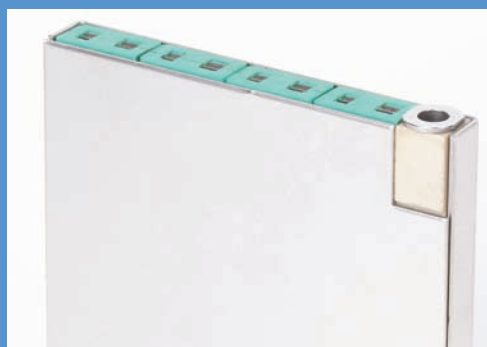
#### • Dimensions:

16 channels (L x H x W) : 153 mm x 20 mm x 80 mm  
8 channels (L x H x W) : 153 mm x 11mm x 80 mm  
2x4 channels (L x H x W) : 82 mm x 21 mm x 107 mm  
4 channels (L x H x W) : 82 mm x 11mm x 107 mm

#### • Radio version dimensions for real time data:

16 channels (L x H x W) : 153 mm x 20 mm x 80 mm  
7 channels (L x H x W) : 153 mm x 11mm x 80 mm  
2x4 voies (L x H x W) : 82 mm x 21 mm x 107 mm  
3 channels (L x H x W) : 82 mm x 11mm x 107 mm

### Technical specifications



- Up to 16 connected thermocouple elements, 1 platinum sensor as reference channel for cold junction and 1 platinum sensor inside the box.

- **Memory capacity:** total of 260 000 acquisitions, divided by 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.

### Software operating conditions

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

#### NOTA :

Annual maintenance is recommended.



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