Temperature data logger

VACQ xFlat

Measures temperature at various points for the control of thermal processes.
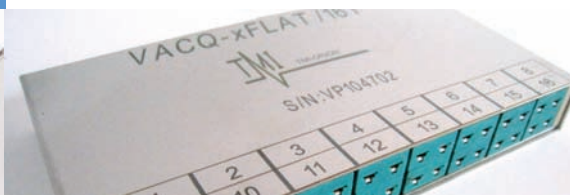
In order to fit into flat access furnaces, TMI-Orion has designed VACQ xFlat, particularly appreciated when monitoring temperature in dry heat processes.
It is protected by a thermal shield when temperature exceeds +150°C.

VACQ xFlat

• 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

Technical specifications

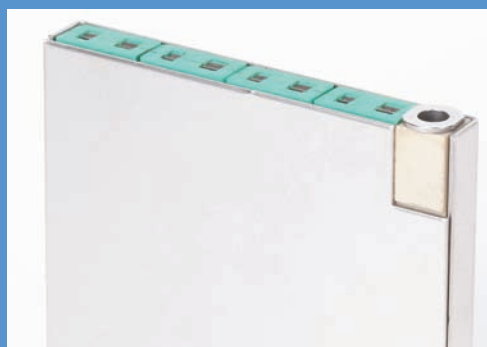● **Material:** 316 L stainless steel
● **Dimensions:**
    16 channels (L x H x W.) : 153 mm x 20 mm x 80 mm
    8 channels (L. x H. x W.) : 153 mm x 11mm x 80 mm
    2x4 channels (L. x H. x W.) : 82 mm x 21 mm x 107 mm
    4 channels (L. x H. x W.) : 82 mm x 11mm x 107 mm
● **Radio version dimensions 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

● 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.