



MULTI-CHANNEL OVEN-DATALOGGER

TERMAPRO PLUS

ThermaPro Plus is the latest generation of high accuracy data logging instruments for use in extreme or hostile environments.

DATALOGGER

Available in 4, 8 and 16 channels model, ThermaPro Plus dataloggers are user-configurable for any number of inputs up to the maximum available. Channels will accept input from thermocouples types K or T, or from devices producing a voltage or current output. Depending on the model configuration, each channel can store a maximum of 900 to 3600 data samples within maximum temperature limits of -270 to + 1372°C (±19.05mV to ±2.5V in 8 steps for Voltage) (±195uA to ±25mA in 8 steps for Current devices).

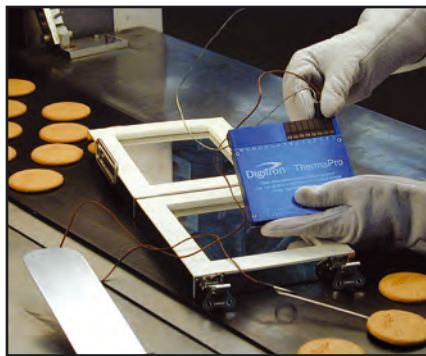
ThermaPro Plus software and interface for PC allows to pre-set and download stored data, the automatic check of calibration, depending on specifications, it showed when it needs.

THERMAL BARRIERS

It is extremely important to consider **time / temperature** of process values when specifying a barrier. On the graph draw a vertical line on the time axis and one on orizzontal of temperature. The appropriate barrier should be the one whose trace is immediately above the intersection of your lines (cfr. graph-guide).

However you could need more info (**contact Digitron Italia**):

1. Many temperature-controlled processes include a number of pre-programmed temperature ramps: total heat-energy exposure in terms of overall time may not be obvious.
2. Process or processes are not covered by the graph. It is strongly recommend that total temperature exposure is carefully considered.
3. Barriers different from standard are available, communicating temperature / time values of own process.



TP04KKIT	4 Channels, input TC K
TP04TKIT	4 Channels, input TC T
TP04VKIT	4 Channels, input voltage/current
TP08KKIT	8 Channels, input TC K
TP08TKIT	8 Channels, input TC T
TP08VKIT	8 Channels, input voltage/current
TP16KKIT	16 Channels, input TC K
TP16TKIT	16 Channels, input TC T
TP16VKIT	16 Channels, input voltage/current
TP16VKKIT	16 Channels, 8 x voltage/current e, 8 x input TC K
TP16VTKIT	16 Channels, 8 x voltage/current , 8 x input TC T
TP04UP	Upgrade 4 Channels

TECNICAL FEATURES

DIMENSIONS:

- Logger: 140mm x 126mm x 17mm
- Thermal Barriers:
 - TB20 20mm X 175mm X 175mm
 - TB24 24mm X 175mm X 175mm
 - TB40 40mm X 180mm X 220mm
 - TB60 60mm x 210mm x 250mm
 - TB80 80mm x 220mm x 260mm
 - TB120 120mm x 260mm x 300mm

THERMOCOUPLES INPUTS:

- Range:
 - Type K: -270°C +1372°C
 - Type T: -250°C +400°C
- Resolution: 0.1°C
- Accuracy: ±0.5°C (included compensation of cold junction)

VOLTAGE INPUTS:

- Range: ±19.5mV ±2.5 V
- Resolution: 600 nV - 76uV
- Accuracy: 0.01% FS o 50uV (whichever the greater)

CURRENT INPUTS (SPECIAL PLUGS REQUIRED):

- Range: ±195uA ±25mA
- Resolution: 6nA - 763nA
- Accuracy: 0.01% fs or 500nA (whichever the greater)

NOISE REDUCTION:

- Common Mode:
 - 100dB (sampling interval 2 s or more)
 - Common Mode 50/60 Hz: 150dB (sampling interval 2 s or more)
 - Common Mode 50/60 Hz: 100dB (sampling interval 2 s or more)

BATTERY

- 1 3.6 V Lithium Thionyl Chloride
- Expected life equivalent to one test per day for five years

Guide to thermal barriers

