

MetTest – Tensile Test Furnace Control Units

TMS Europe offers a range of control systems for use with our range of tensile test furnaces (used for creep test, stress rupture test, etc).

The *MetTest* range provides precise and stable temperature control of 3 furnace zones.



Standard Models

MetTest1 £800

Main Controller: Omron E5CC 1/16 DIN Digital PID Temperature Controller
 Zone Controls: None. (All zones by main controller.)
 Indicators: None.
 Timed Programs: None.
 Power Indication: None.
 Output Method: Time proportioned Solid State Relay.
 Protection method: Relay controlled by main controller to protect against SSR failing on.
 Over-current protection: Single fuse in plug. No circuit breaker.
 Power Output: 12.5A / 3kW max
 Power Connection: UK (BS1363) 13A plug
 Dimensions: 380 x 460 x 230mm (WxDxH)

MetTest1OTP £950

As MetTest1, but also with:

Protection Method: Separate digital controller with input for separate Type N thermocouple (sold separately).
 (Independent over-temperature protection, can be set by the user.)

MetTest4**£2100**

Main Controller: Eurotherm 3016 1/16 DIN Digital PID Temperature Controller
Indicators: 2 Digital Temperature Indicators (for the other 2 zones).
Timed Programs: 1 Program with 8 segments. Extra programs optional at extra cost.
Zone Controls: All 3 zones have manual power turn-down, via knobs, as a percentage of the centre zone's output.
Power Indication: 10 segment LED bargraph for each of the 3 zones.
Output Method: Time proportioned Solid State Relay for each of the 3 zones.
Protection Method: Contactor controlled by main controller to protect against SSR failing on. Separate digital controller with input for separate Type N thermocouple (sold separately). (Independent over-temperature protection, can be set by the user.)
Over-current protection: Fuse for each zone and MCB circuit breaker at rear.
Power Output: 15.5A / 3.7kW max
Power Connection: 16A blue round plug
Dimensions: 380 x 460 x 230mm (WxDxH)

MetTest5**£2900**

Main Controller: Eurotherm nanodac 1/4 DIN Digital PID Temperature Controller
Recording & Indicators: 1x Control thermocouple sensor, 3 other thermocouple sensor, 2 external contact/switch closure.
Timed Programs: Optional at extra cost. **+£300**
Zone Controls: All 3 zones have manual power turn-down, via knobs, as a percentage of the centre zone's output.
Power Indication: 10 segment LED bargraph for each of the 3 zones.
Output Method: Time proportioned Solid State Relay for each of the 3 zones.
Protection Method: Contactor controlled by main controller to protect against SSR failing on. Separate digital controller with input for separate Type N thermocouple (sold separately). (Independent over-temperature protection, can be set by the user.)
Over-current protection: Fuse for each zone and MCB circuit breaker at rear.
Power Output: 15.5A / 3.7kW max
Power Connection: 16A blue round plug
Dimensions: 380 x 460 x 230mm (WxDxH)

MetTest5PA**£3450**

As MetTest5, but with:
Output Method: Eurotherm Phase-Angle Control Thyristor for each of the 3 zones.

Digital communications or connection to a PC are also available at extra cost on some models.

All models without recording can take a Type K, Type N or Type R Thermocouple input via sockets at the rear. Models with recording can have thermocouple input sockets specified when ordering.

All models have a connection terminal box at the rear connecting 3 furnace zones (6 terminals). Dimensions do not include cable connections.

We can also provide bespoke solutions to meet your requirements, including phase-angle output, automatic 3-zone PID control, recording and LED bargraph power indicators.

We also offer a standard range of tensile furnaces and can manufacture them to spec too. We do not supply mounting systems/test rigs, but can normally offer furnaces with compatible mounting for existing equipment.

TMS is a manufacturer of thermocouple temperature sensors, so can provide a complete system comprising furnace, temperature sensors and control system.

