



For Information and to Order Contact
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T650 Hot Cold Plate / Thermal Platform Systems

The T650 series of thermal platform systems is the best value configuration offering a thermal plate with an integrated temperature controller. Thermal platforms offer the fastest, most convenient method of testing electronic components that may be heated and cooled by direct conduction. Not only do thermal plates offer much faster thermal cycling rates than environmental chambers, but cable connections, probing and tuning of the device under test is much more easily accomplished.



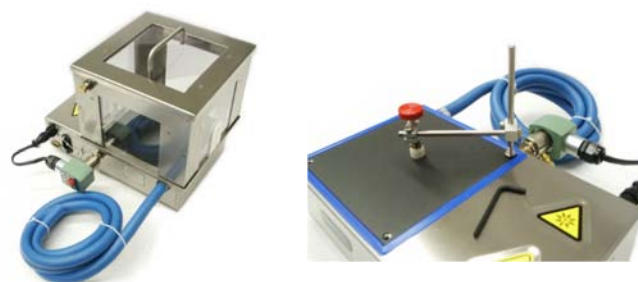
T650 thermal platform shown with the PM6 Temperature Controller

Heating of the plate is provided by resistance elements and cooling by the expansion of liquid Carbon Dioxide (LCO₂) or liquid Nitrogen (LN₂) in a computer designed and CNC machined channel embedded within the platform.

Three standard sizes insure quick delivery of a plate that is well suited to your test requirements. Additional standard features include precision grinding and hard plating of plate surfaces, threaded 18-8 stainless steel 1/4"-20 inserts for fixturing and a fixed set point latching thermal overtemperature failsafe system. All PM controllers come with Modbus RTU protocol EIA (RS)-232/485 included.

There are two temperature controller options for the standard PM6. You can add a programmable set-point, built-in FM approved limit/alarm "product saver" or you can substitute an Ethernet/IP—Modbus TCP serial interface in place of the 2nd user device sensor.

Dry box desiccators utilizing a dry Nitrogen (GN₂) or very dry air purge system allow moisture and frost free testing below dew point. Ground & plated fixturing adapter plates and our universal hold down clamping arm are quick & easy ways to attach devices to our platform. Insulated supply hoses are also available.



Optional dry box desiccator and universal hold down clamp shown

Precision ground aluminum alloy thermal plate
Very fast heating & cooling ramp rates
Extremely efficient cooling channel design
Corrosion proof 304 stainless steel chassis
2nd user device under test sensor
Ramp to set point & ramp & soak profiling feature
EIA(RS)-232/485 serial computer interface
Surface hard plated for extremely long wear
Optional "product saver" or Ethernet interface



Optional fixture/adaptor plate and LN2 supply hose shown

Visit Our Web Site To View Our Inventory Of **NEW Thermal Platforms/Hot Cold Plates**
www.LRE.com 800-574-2748 323-770-0634 Email: sales@LRE.com



T650 Thermal Platform Ordering Information

T650

Size

- 1 6.75" X 6.75" (17.15 cm X 17.15 cm)
- 2 11" X 11" (27.94 cm X 27.94 cm)
- 3 4.0" X 4.0" (10.16 cm X 10.16 cm)

Voltage

- 1 115 VAC 50/60 Hz (105 to 125 VAC)
- 2 230 VAC 50/60 Hz (208 to 250 VAC)

Coolant

- 1 LN₂ 15-25 PSIG (+130° C to -99° C)
- 2 LCO₂ 300 PSIG (+130° C to -65° C)
- 3 LCO₂ 900 PSIG (+130° C to -65° C)

PM6 Controller

- A PM6 – Ramp & soak profiling, Std. bus & Modbus RTU EIA-232/485 serial comms, 2nd user device sensor
- B PM6 – add FM approved integrated limit/alarm controller ("product saver")
- C PM6 – with Ethernet/IP – Modbus TCP communications*

*Replaces 2nd device sensor or limit/alarm controller ("product saver")

Country

- A Continental Europe (Austria, Germany, Netherlands, Spain, Sweden, etc.)
- C Australia/New Zealand
- D United Kingdom/Ireland
- E Denmark
- F France/Belgium
- G India/South Africa
- H Israel
- I Italy
- J Japan
- K USA (North America)
- L Switzerland
- O Russia
- X China
- T Argentina
- Z Stripped Leads (no plug on power cord)

Example: T650-111AK T650 Thermal Platform System, 6.75" X 6.75", 115 VAC 50/60 Hz, LN₂ 20 PSIG, PM6 Temperature Controller and USA (North America) plug and power cord