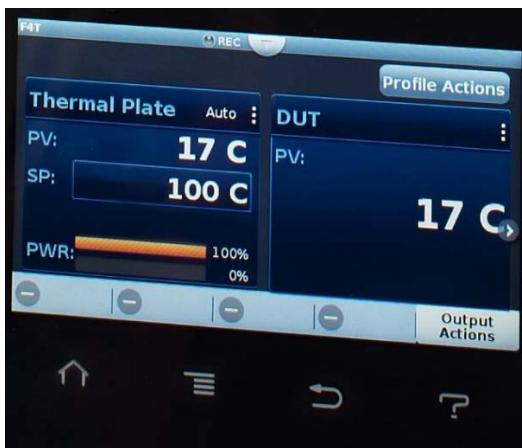




F4T Feature Matrix



Feature	F4T-1*	F4T-2*	F4T-3*
Programmable ramp to set point	●	●	●
Programmable Profiling - Ramp & Soak	●	●	●
Standard bus protocol EIA(RS)-485 serial communications	◊	◊	◊
Modbus RTU protocol EIA(RS)-485/232 serial communications	●	●	●
Modbus TCP & SCPI protocol Ethernet communications †	●	●	●
2 nd sensor input for device under test temperature monitoring	●	●	●
Integrated FM approved limit alarm controller ("product saver")	◊	●	●
Cascade PID Control	◊	●	●
Five (5) PID sets with automatic PID crossover	●	●	●
4.3-inch high resolution color graphical touch panel	●	●	●
Data logger	◊	◊	●
Graphical color trend charts	◊	◊	●
Display screen custom personalization	●	●	●
Free Configurator® text-based programming PC software	◊	◊	◊
Free Composer® graphical programming PC software	●	●	●
Programmable logic function blocks	●	●	●
Provision to field upgrade firmware features	●	●	●
Provision for field installable analog & digital I/O hardware modules	●	●	●
Two USB host ports for data transfer	●	●	●
LabVIEW™ driver for Standard bus protocol EIA-485/232 serial comms	◊	◊	◊
LabVIEW™ driver for Standard Bus & SCPI protocol Ethernet †	●	●	●
GPIB-488	○	●	●
Approvals: UL®, FM, CE, RoHS, W.E.E., CSA, NEMA 4X/IP65 or IP66	●	●	●

*The F4T controller can be used with the T800 series and MRTP thermal platform systems

† The F4T Ethernet does not support Virtual Instrument Software Architecture (VISA) or Ethernet/IP protocol. The F4T Ethernet does support Modbus TCP/Specview® on port 502., Limited SCPI commands on port 5025., Composer, Standard Bus, and LabVIEW driver on port 44819. The SCPI protocol for Ethernet is a limited command set. Contact ESS, Inc. for the list of available SCPI commands

● Included

○ Optional

◊ Unavailable

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PM6, PM9 and RMC Controller Feature Matrix

Feature	PM6*	PM9*	RMC*
Programmable ramp to set point	●	●	●
Profiling Ramp & Soak	●	●	●
Standard bus protocol EIA(RS)-485 serial communications	● ¹	●	●
Modbus RTU protocol EIA(RS)-485/232 serial communications	● ¹	●	●
Ethernet/IP – Modbus TCP/IP protocol serial communications	○ ²	○ ²	○ ²
2 nd sensor input for device under test temperature monitoring	●	●	●
Integrated FM approved limit alarm controller (“product saver”)	○	○	○
Cascade PID Control	◊	◊	◊
Multiple PID sets with automatic programmable PID crossover	◊	◊	◊
4.3-inch high resolution color graphical touch panel	◊	◊	◊
Data logger	◊	◊	◊
Graphical trend charts	◊	◊	◊
Display screen custom personalization	◊	◊	◊
Free Configurator® text-based programming PC software	●	●	●
Free Composer® Graphical programming PC software	◊	◊	●
Programmable logic function blocks	◊	◊	●
Provision to field upgrade firmware features	◊	◊	◊
Provision for field installable analog & digital I/O hardware modules	◊	◊	◊
Two USB host ports for data transfer	◊	◊	◊
LabVIEW™ driver for Standard bus protocol EIA-485/232 serial comms	●	●	●
LabVIEW™ driver and SCPI protocol for Ethernet	◊	◊	◊
GPIB-488	○	○	○
Approvals: UL®, FM, CE, RoHS, W.E.E.E., CSA, NEMA 4X/IP65 or IP66	●	●	●

* The PM6 temperature controller is used with the T650 and T700 series thermal platform systems. The PM9 temperature controller is used with the T600 series thermal platform systems. The RMC temperature controller is only used with MRTP thermal platform systems

● Included

○ Optional

◊ Unavailable

Notes:

1. The PM6 comes with EIA(RS)-485 serial communications. EIA(RS)-232 serial communications is provided by an external 485 to 232 converter included with the system. Standard bus or Modbus RTU protocol is software selectable within the Communications Page of the Setup Menu.
2. Ethernet/IP – Modbus TCP/IP protocol serial communications is available on the PM6 in place of the 2nd sensor input for device under test temperature monitoring or the product saver limit/alarm controller. Ethernet/IP – Modbus TCP/IP protocol serial communications is available in place of the Modbus RTU protocol EIA(RS)-485/232 serial communications on the PM9 and RMC controllers. The SCPI protocol limited command set is not available with the Ethernet option on PM6, PM9 or RMC controllers.

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