



MAX TC (G4)[®]



-70°C to 175°C/200°C
-40°C @ 90W

Universal High Power Thermal Control Unit

MD Thermal control units were designed with high efficiency and flexibility in mind, allowing for customization to suit different package and interface variations. The system allows for temperature forcing across a wide range of device sizes and types, whether socketed or soldered to the board. With state of the art design and technology MD units stimulate the DUT to the desired temperature precisely and consistently right where you need by direct contact with a thermal head's tip.

The well proven thermal head methodology creates a stable temperature control environment right where you need. The pneumatically driven thermal head makes direct contact with the IC device providing great power handling and precise temperature control.

The G4 series features upgrades that include extended temperature range, low current consumption, low noise level, lower air temp emission with increased cooling power. With Max TC (G4) you can achieve low T_j even if the component's power dissipation is high.

Right Angle / Axial Clip-on actuator head

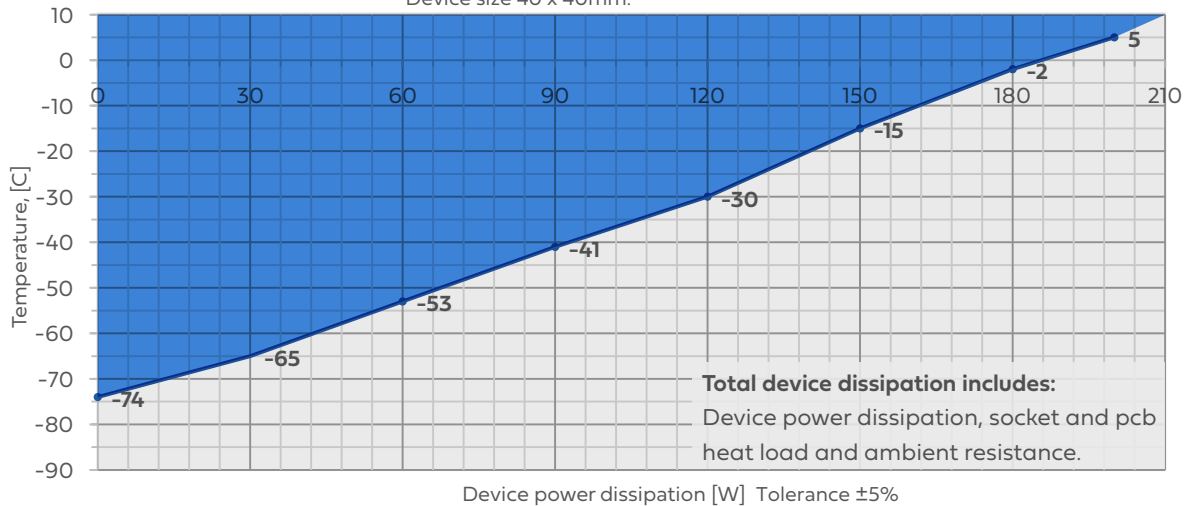


Toggle clamp unit





Case temp vs total device dissipation
Device size 40 x 40mm.



System Specifications:

Operating

Temperature range	-70°C to +175°C/200°C
Temperature accuracy	±0.2°C
Transition rates	Up to 75°C/min
Temperature sensor types	PT100 thermistor K-type thermocouple DUT Thermal diode feedback
Actuation type	Pneumatic clip-on actuator
Actuation force	up to 80 Kgf / 350 Kgf

Mechanical Data

System size (WxHxL)	505mm x 365mm x 610mm
System weight	55 Kg
Thermal head (mm)	73 x 43 x 73
Controller to TH distance	~2 meter (6.5ft)

Facilities

Power	200V-240V AC 50/60Hz, 16A max
CDA	<0.5cfm @ 90PSI -70°C dew point
Operating temperature	-10°C to 30°C
Plug	Nema L6-20/30

Data Communication

Ethernet TCP/IP	RJ-45
Touch screen display	7" LCD

Features:

- Temperature range -70°C to 175°C (200°C optional)
- Cooling power -40°C @ 90W (Tc)
- Temperature stability 0.2°C
- Self-contained liquid free operation
- Quiet and portable
- Adapt to most packages and sockets
- Condensation FREE
- Maintenance FREE
- Remotely controlled via an ethernet
- Fully programmable for automation
- Tj and Tc control
- Environmentally friendly operation

Available Options:

- Clip-on actuator
- Manual actuator
- Toggle clamp
- Boom stand
- Enclosures
- Customized fixtures

Applications:

- ATE, SLT and bench
- High reliability testing
- Thermal stream/chamber/ chiller replacement
- OEM integrations