



Sensata High Power iQ-Phase Thermal Forcing System

Precision, Wide temperature range, Portable

Sensata's iQ-Phase Thermal Management System is designed with performance 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 down.

The well-proven, thermal head methodology coupled with liquid-less phase change heat transfer technology creates a very quiet, portable and fast stabilization thermal control environment. The pneumatically driven vertically actuating thermal heads makes direct contact with your IC providing for superior power handling and precision control over other thermal control methods.

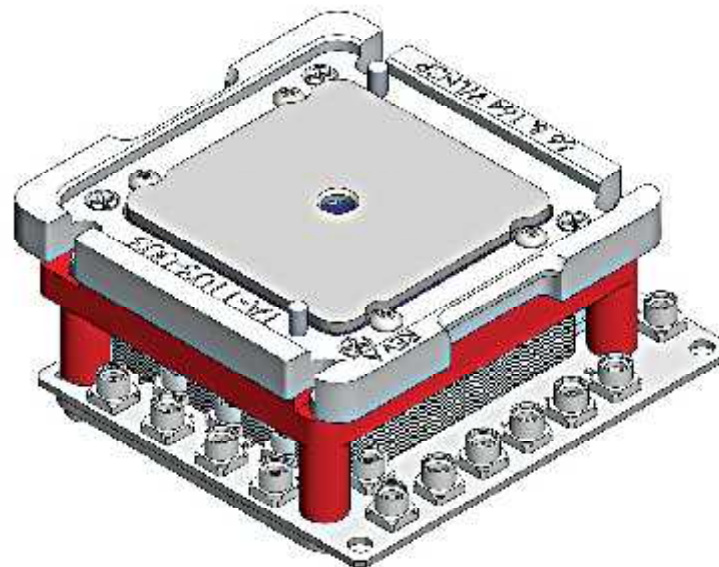
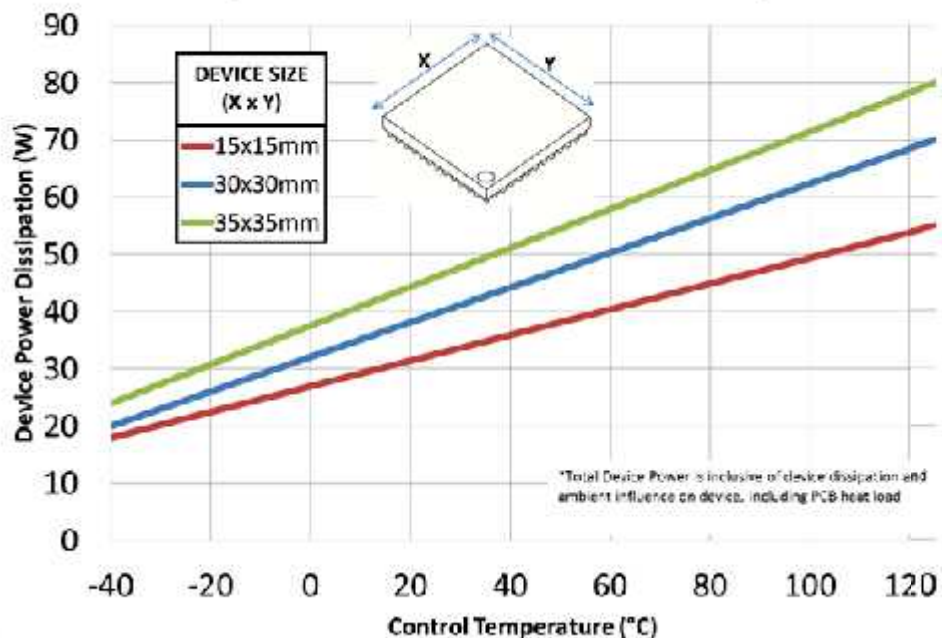
Features

- -55°C to 250°C
- Completely self-contained liquid free operation
- All package types
- Adapts to most sockets and boards
- Very quiet operation (<40dB)
- Small footprint
- Portable and rackmountable
- Worldwide power
- Residue free contact with DUT
- ECO Friendly lowest power consumption thermal forcing system

Applications

- Temperature Forcing
- Thermal Stream Replacement
- High Reliability Testing
- ATE, SLT and Bench
- OEM Integrations

Case Temperature vs. Total Device Power Dissipation*



CUTTING EDGE • PROVEN • PRECISE



With its superior power handling and precision control, the iQ System is designed for optimum temperature forcing. Its unique combination of proven methodologies and cutting-edge heat transfer technology can be expertly customized, no matter what your IC needs.

Package Adapters



Available Options

- System Carts
- Gantries
- Calibration Kits
- Custom Temperature Sense
- Dongles

SYSTEM SPECIFICATIONS

Operating

Temperature Range	-55°C to +150°C Extended to 250°C
Accuracy	+/-0.3°C
Transition Rate	Up to 70°C/min
Actuation Type	Pneumatic Integrated
Actuation Force	Up to 55kg
Remote Sensor Types	Type K Thermocouple Diode, Analog, Remote, Programming

Mechanical

Controller Weight	Approx. 15kg
Thermal Head Size	480mm x 130mm x400mm (W x H x D)
Controller to Thermal Head Distance	Approx. 2.5m

Data/Communications

USB	Type B
Ethernet TCP/IP	RJ-45
Touch Screen Display	110mm Ruggedized LCD

Environment/Facilities

Operating Temperature	-10°C to +45°C (non-condensing)
Power	100V-240V AC 50/60Hz 600VA MAX
Plug	C14
Compressed Dry Air	<1cfm @ 90psi (-55°C Dew Point)

FACILITIES REQUIREMENTS

Electric

AC Power:	200-240V Single Phase 50-60 Hz 10A MAX
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Cable/Plug Type	C13 to NEMA 5-15P C13 to NEMA L6-20P
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Compressed Air

Line 1	<1 cfm max 90 psi 1/4" Industrial Standard Connection Clean Dry Air -70°C Dewpoint Filtered 10um
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Communication

USB	Type B
Ethernet	RJ-45





SUPPORT

Sensata has offices Worldwide for Sales and Technical Support

- US
- Europe
- Japan
- Korea
- Taiwan
- China
- Singapore
- Malaysia
- Israel

WARRANTY

Sensata warrants this product to be free from defects in material and workmanship for a period of one (1) year after the original date of delivery. During this period, Sensata will, at its option, either repair the defective product with new parts, or replace it with a new product at no charge.

