Sensata Technologies

iQ–PHASE THERMAL FORCING SYSTEM

Precision, Wide Temperature Range, Portable

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.

Sensata Technologies has an exceptional history of more than 95 years and is a leading supplier of Interconnect technology.

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 the cutting edge liquid–less phase change heat transfer technology creates a very quiet, portable and fast stabilization thermal control environment. The vertically actuating thermal heads makes direct contact with your IC providing for far superior power handling and precision control over other thermal control methods.

BENEFITS

- -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 rack mountable
- 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

Qinex™

QUALITY INTERCONNECTION EXPERTS

From Sensata Technologies

Sensata Technologies

SYSTEM SPECIFICATIONS

OPERATING

Temperature range	-55°C to 250°C
Accuracy	±0.3°C
Transition Rate	Up to 70°C/min (ramp rate controllable)
Actuation Type	Z-Axis Lid Integrated
Actuation Force	Up to 55kg
Remote Sensor Types	2 – Type K Thermocouple Ports, Thermal Diode

MECHANICAL

Controller Size WxHxD	480mm x 130mm x 400mm
Controller Weight	Approx. 15kg
Thermal Head Size WxHxD	59mm x 50mm x 59mm
Thermal Head Weight	Approx. 1kg
Controller to Thermal Head Distance	Approximately 2.5m

DATA / COMMUNICATIONS

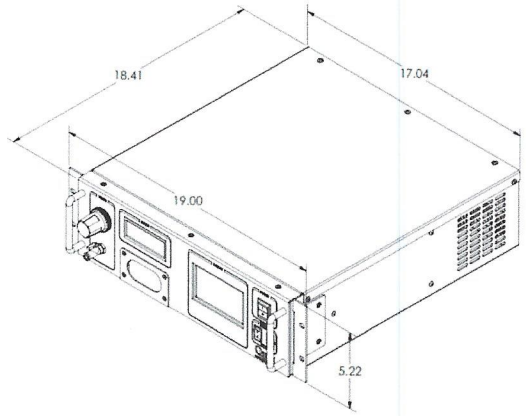
USB	Type B
Ethernet TCP/IP	RJ-45
Touch Screen Display	110mm Ruggidized LCD

ENVIRONMENT / FACILITIES

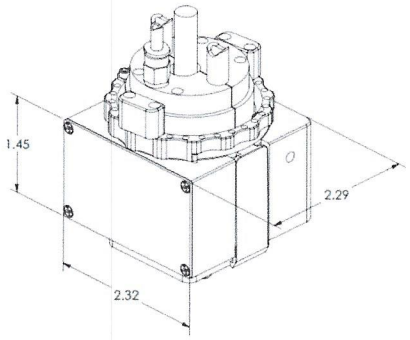
Operating Temperature	-10°C to +45°C (non–condensing)
Power	100V to 240V AC 50/60Hz
	6A MAX (100V)
	2.5A MAX (240V)
Plug	C14
Compressed Dry Air	<1cfm @ 90psi (-55°C dew point)

DIAGRAMS

CONTROLLER



THERMAL HEAD



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The World Depends on Sensors and Controls

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