

# **iQ-200**™

## **MEASURE TEMPERATURE, VELOCITY & PRESSURE WITH ONE SYSTEM**

- » iQ-200<sup>™</sup> provides the user with the capability to *simultaneously* or *individually* measure all of the required thermal parameters with one system.
- » iQ-200<sup>™</sup> provides multiple channels of Temperature, Velocity and Pressure.
- » iQ-200<sup>™</sup> eliminates the need for having multiple systems or additional software to synchronize data collection of different parameters.
- » iQ-200<sup>™</sup> comes with the unique LabVIEW<sup>™</sup> based operating software, IQ stage<sup>™</sup>, eliminates data collection errors induced because of measurement time lapses or transience associated with the use of multiple systems.

iQ-200

» iQ-200<sup>™</sup> provides a compact, portable and versatile system to minimize lab clutter and go where measurement is required.

### **APPLICATION DOMAIN**

**iQ-200<sup>™</sup>** is designed to be used wherever Temperature, Pressure and Velocity measurements are required, either simultaneously or individually. **OVERALL DIMENSIO** 

Some examples where iQ-200<sup>™</sup> is used:

- » Heat sink design and selection
- » PCB characterization
- » Card rack (ATCA, PICMG, 1U, etc.) characterization
- » Qualification testing in the environmental chamber, e.g., NEBS, Milspec, etc.
- » Mockup testing
- » Wind tunnel testing of cards, heatsinks, etc.

#### Data Port Panel

#### Back Panel





**OVERALL DIMENSIONS (D x W x H)** 43 cm x 34 cm x 12.6 cm (17" x 13.3" x 5")

ZTA C

NUMBER OF VELOCITY CHANNELS

FLOW RANGE 0 to 50 m/s (0 to 10,000 ft/min)

**NUMBER OF THERMOCUPLES** 12 (J and K types)

NUMBER OF PRESSURE SENSORS 4 (Differential)

PRESSURE RANGE 0 to 0.15 psi

**SOFTWARE** IQ*stage*™

**VOLTAGE INPUT** 110V or 220V

WEIGHT 7.5 kg (15 lbs.)

For further technical information, please contact Advanced Thermal Solutions, Inc. at 1-781-769-2800 or www.gats.com

## TEMPERATURE

- > 12 thermocouple ports supporting J and K types, with a range of -40 to 750°C.
- I6 thermistor ports (also used for velocity measurement) with a range of -10 to 85°C.

## VELOCITY

- > 16 hot wire anemometer ports supporting ATS single sensor velocity measurement technology, (requiring no need to change sensors when measuring different velocity ranges).
- Supports ATS unique, patented Candle Stick Sensor



#### ATS Candle-Stick Sensor

Standard range for velocity measurement is 0-6 m/s (1200 ft/ min). With custom calibration, the range is 0-50 m/s (10,000 ft/min) – no need to change sensors

#### PRESSURE

Four ports supporting differential or absolute pressure measurements with a range of 0-1,035 Pa (0-0.15 psi)

## DATA ACQUISITION SOFTWARE - IQstage™

- » IQ stage<sup>™</sup> manages incoming data from various sensors and provides a rich graphical presentation of the results
- ➤ User-friendly LabVIEW<sup>TM</sup> based IQstage<sup>TM</sup> is included with the system

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