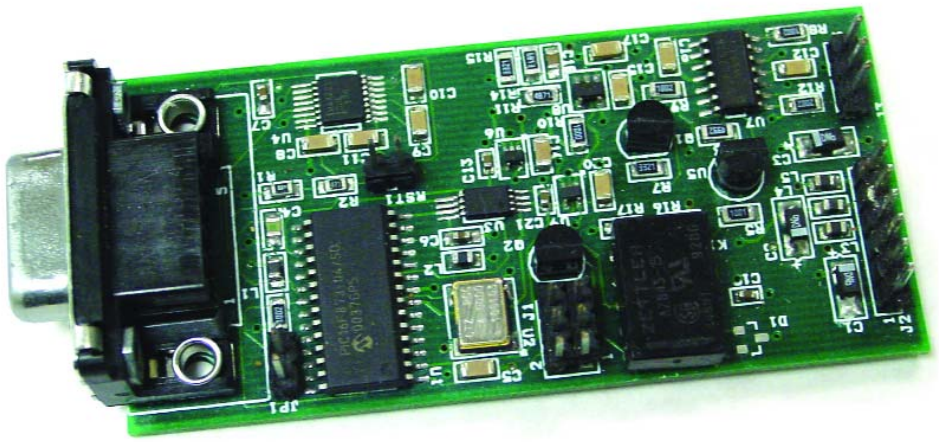
Innovation in Thermal Management™

ISD-232™

Temperature and Velocity Measurement with Digital Output

ISD-232™ Features

- Two independent sensors.
- Simultaneous measurement of velocity and temperature.
- 115 volt AC to power supply with DC outputs of +5V, +15/+12 V and -15/-12 V.
- Computer feedback control and measurement with mobile sensors that can be placed any where in the test domain.
- Compact and small PCB designed for conditions where rapid measurement or control is required.
- Multiple ISD-232™ can be used for multi-point measurements once used with a multi-port RS232 system .
- High precision system capable of measuring temperature from -30 ^{O}C to 150 ^{O}C and velocity from 0 to 50 m/secn **without the need to change sensors.**



ISD-232™ is designed to measure air flow temperature and velocity using two sensors. The ISD-232™ board is used for independent applications that require high speed data rate. It has two independent sensors for determining air temperature and velocity to facilitate rapid feedback of the airflow inside the measurement area or, if required, simply for direct measurement of the flow parameters. It is provided with a LabVIEW™ VI to convert the voltages into temperature and velocity if the unit is purchased with the calibrated sensors supplied by Advanced Thermal Solutions, Inc. It requires a triple output DC power supply with +5V, +15/+12V and –15/-12V for its operation.

Technical Data

- **Temperature Range:** -30^{O}C to 150^{O}C (it can be customized for different temperature ranges)
- **Velocity Range:** 0.3 to 50 m/sec (0 to 10,000 ft/min) if sensors are purchased pre-calibrated
- **Length:** 3.34”(84.8 mm)
- **Width:** 1.44” (36.5 mm)
- **Height:** 0.55” (13.9 mm)
- **Weight:** 26 grams
- **Two independent temperature and velocity sensors**
- **LabVIEW™ based VI software for operation (included)**
- **Power requirements: 115 Volt AC Input with 3 DC Outputs +5V, +15/+12V, -15/-12V (not included -- can be purchased separately)**