

MODEL 100, 100B, & 100HC DATA ACQUISITION HARDWARE

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Features

The i100 instruNet Network Device, pictured to the right, provides the following features:



Click on image to enlarge

- o 16se/8di 14bit analog inputs with $\pm 5V$, $\pm .6V$, $\pm .08V$ & $\pm .01V$ range
- o 8 Channels $\pm 5V$ 8bit analog outputs
- o 8 digital I/O bits

Product Variations

All i100 products includes 44 screw terminals. The i100B version provides 16 additional BNC connectors for analog inputs; and the i100HC version provides no BNC's yet does provide voltage output channels with 15mA of drive capability.

Model	Voltage Inputs			Voltage Outputs			Digital I/O
	# of Channels	Input Range	Absolute Accuracy	# of Channels	Write Accuracy	Read-back Accuracy	
i100	16ch w/screw terminal access	$\pm 5V$ $\pm .6V$ $\pm 80mV$ $\pm 8mV$	$\pm 1500\mu V$ $\pm 150\mu V$ $\pm 45\mu V$ $\pm 30\mu V$	8ch with 4mA/1KpF Drive Capability	$\pm 40 mV$	$\pm 3 mV$	8 bidirectional I/O Bits
100B	Same as #iNet-100, yet with 16 additional BNC connectors for 16se voltage inputs.						
100HC	Same as #iNet-100, yet with voltage outputs that have 15mA/.01uF drive capability.						

Overview

[instruNet Product Family Overview](#)

Specifications

[Specifications for i100](#)

[Thermocouple Accuracy with the i100](#)

Compatible Sensors and Controls

[Compatible Sensors](#)

Product Information

[i2x0 and i100 Maximum Sample Rates](#)

[Sample Rate Vs. Integration Time Vs. Noise](#)

[Outputs After Power On or Reset](#)

[Software Calibration Options](#)

[i100, Driving Current and Capacitance w/ Voltage Outputs](#)

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[i100, Environmental Considerations](#)

[Typical instruNet Systems](#)

Getting Started

[Installing instruNet Hardware & Software](#)

[instruNet World Tutorial](#)

[Connecting to Sensors and Controls](#)

[Setting Up A Digitization](#)

[Working with Voltage Output Channels, Tutorial](#)

[Working with Digital I/O Channels, Tutorial](#)

Troubleshooting

[Troubleshooting Hardware](#)

[Signal is Too Noisy](#)

[Sample Rate is Too Slow](#)

[Measurement is Not Accurate](#)

[An i4xx Card or i4xx Card Cage is Not Seen by instruNet World Software](#)

[The i100 Data Acquisition Box is Not Seen by instruNet World Software](#)

[i100, Voltage Input Channel, Damage Due to Excess Voltage](#)

[i100, Noise and Oscillations on Voltage Output Channels](#)

[instruNet World Software Shows an Error Alert Upon Launch](#)

Software Updates

[Upgrading to the latest iNet32.dll is quick and easy! \(5MB download\)](#)

Related Information

[Mounting on DIN Rails](#)

[i100, Disconnectable Screw Terminals](#)

Powering instruNet from +12VDC or Batteries

Accessories Available from 3rd Parties

Compatibility

Compatible Computers

Compatible Software