**Remote Analog Data Acquisition Modules:**
ICP DAS USA Analog Data Acquisition Modules Communicable via RS-485

<table>
<thead>
<tr>
<th>Model</th>
<th>Input Channels</th>
<th>Analog Input Type</th>
<th>Analog Output Channels</th>
<th>Digital Output Channels</th>
<th>Sampling Rate</th>
<th>Over Voltage Protection</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>I-7005</td>
<td>1</td>
<td>Thermistor</td>
<td>0</td>
<td>6*</td>
<td>8 Hz</td>
<td>±5V</td>
<td>$375</td>
</tr>
<tr>
<td>I-7015</td>
<td>6</td>
<td>RTD</td>
<td>0</td>
<td>0</td>
<td>12 Hz</td>
<td>±5V</td>
<td>$375</td>
</tr>
<tr>
<td>I-7017</td>
<td>8</td>
<td>Voltage or Current</td>
<td>0</td>
<td>0</td>
<td>10 Hz</td>
<td>±35V</td>
<td>$230</td>
</tr>
<tr>
<td>I-7018</td>
<td>8</td>
<td>Voltage, Current, or Thermocouple</td>
<td>0</td>
<td>0</td>
<td>10 Hz</td>
<td>±35V</td>
<td>$235</td>
</tr>
<tr>
<td>I-7018Z (High Accuracy)</td>
<td>10</td>
<td>Voltage, Current, or Thermocouple</td>
<td>0</td>
<td>0</td>
<td>10 Hz</td>
<td>±240Vrms</td>
<td>$435</td>
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<tr>
<td>I-7019R</td>
<td>8</td>
<td>Voltage, Current, or Thermocouple</td>
<td>0</td>
<td>0</td>
<td>10 Hz</td>
<td>±240Vrms</td>
<td>$340</td>
</tr>
<tr>
<td>I-7022</td>
<td>0</td>
<td>-</td>
<td>2** (mA, V)</td>
<td>0</td>
<td>-</td>
<td>-</td>
<td>$270</td>
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<tr>
<td>I-7024</td>
<td>0</td>
<td>-</td>
<td>4 (mA, V)</td>
<td>0</td>
<td>-</td>
<td>-</td>
<td>$320</td>
</tr>
</tbody>
</table>

* Can be used as DO or High/Low Alarm.
** Channel to Channel Isolation
Hoskin Scientific implemented our I-7019R Universal Analog Input Modules in conjunction with Hoskin’s own custom fabricated data access terminals to effectively monitor tensile strain and lapses across the surface of a retaining wall. The data is transmitted remotely to a DasyLab powered PC for evaluation.

The installation monitors strain across the retaining wall at three integral locations with each monitoring point about 1000m apart. Each monitoring installation consisted of an I-7019 universal analog input module, a DIN-KA52F power supply, and two separate Hoskin Scientific fabricated bridge completion modules; containing three precision 120Ohm completion resistors housed in ICP DAS dummy modules.

The entire monitoring installation was networked to communicate via RS-485 between both the data acquisition modules, as well as the data logging source.

Click Here for the full application story.
I-7243D is a solution that provides communication protocol transfers of the DeviceNet and Modbus/TCP protocols. It also solves a mission-critical problem: connecting existing DeviceNet networks to Ethernet-based PLCs and PC-based configuration and monitoring systems. I-7243D enables DeviceNet networks to be coupled together over the Internet/Ethernet, whereby remote monitoring and control is possible.

- Programmable DeviceNet Master MAC ID.
- Programmable DeviceNet Transfer-Rate: 125K, 250K, 500K.
- Supports Up to 63 DeviceNet Devices
- Predefined Master/Slave Connection Set
- 64 Maximum I/O Fragment Number
- Supports I/O Operation Modes:
  - Poll, Bit-Strobe and Change of State/Cyclic
- Supports one Poll, one Bit-Strobe, one COS, one Cyclic IO connection for each DeviceNet device when connected with this module.
- Supports Online Adding and Removing of Devices from the Network.
- Supports Boot-up Auto communication with Slave Devices.
- Converts single Modbus/TCP to multi Modbus/RTU
- Supports VxComm technique for every COM port of controller
- Allows Simultaneous Multi-Client (or Master) Access

*Offer not valid for resellers and distributors.

Do You Have an Application Story to Share with Us?

Click Here to share your story with ICP DAS USA! We would love to hear about your product implementations. Click here to read our comprehensive list of application stories.