

**Analog and Digital Output Signal Conditioners/Transmitters**

**\$250**  
iDRN/iDRX

Patented



- ✓ **ANALOG OR DIGITAL OUTPUTS**
- ✓ **Models Available for:**  
**Thermocouple**  
**RTD**  
**Process Voltage & Current**  
**Strain**  
**Frequency/Pulse**  
**AC Voltage and Current**
- ✓ **Up to 1800 Vdc Isolation**
- ✓ **DRN Series Provide**  
**0-10 Vdc, 4-20 mA or**  
**0-20 mA Output**
- ✓ **DRX Series Provide RS-485**  
**Output (ASCII Serial**  
**Protocol and**  
**MODBUS Serial Protocol)**
- ✓ **Free Setup and**  
**Configuration Software**
- ✓ **Factory Setup and**  
**Configuration Available at**  
**No Charge (for DRN Analog**  
**Output Models)**

The new iD Series signal conditioners combine the accuracy of laboratory instrumentation with the performance required by demanding industrial applications. The iD Series signal conditioners are ideal for those applications in Data Acquisition, Test & Measurement, Process Control, and Industrial Automation where accuracy, performance, and reliability are critically important.

The iD Series signal conditioners mount on a 35mm DIN rail, and operate on any voltage between 10-32 DC power. (A matching 24 Vdc 850 mA switching power supply is also available.) The devices feature three-way isolation of up to 1800 V between the signal inputs, outputs, and power supply.

The iD series feature seven (7) models designed for each of the most widely measured signal inputs: Process (DC) Voltage and Current; Strain Gage; Thermocouples; RTD's; AC Voltage; AC Current; Frequency/Pulse.

The iD series devices are designed to work directly with a variety of sensors and transducers; no other components are necessary. For sensors such as RTD's, strain gages, and some process transducers, precise stable excitation is provided directly from the iD module.

The iD series are available with two different types of signal outputs: Analog or Digital. The **iDRN** series provides a totally scalable analog output in DC voltage or current. The **iDRX** series provide a digital RS-485 output. Both iD Series signal conditioners are intelligent microprocessor based instruments that can be scaled and programmed by computer via serial communications, or over an Ethernet network.

**iDRN SERIES ANALOG OUTPUT**

The **iDRN** series feature a 0-10 Vdc, or 0-20 mA (including 4-20 mA) analog output signal that is typically scaled to be directly proportional to the input signal. It is an ideal component in a system with PLC's or PC's with analog data acquisition boards.

The **iDRN** series are an excellent choice for applications that demand an extra measure of accuracy and performance that is not possible with conventional "analog" signal conditioners or transmitters. Unlike conventional analog devices that are scaled by adjusting zero and span "pots", the programmable, micro-processor based **iDRN** instruments are scaled precisely on a PC with free and simple Windows software. The **iDRN** modules connect directly to a PC's RS-232 Serial Communications port for programming and scaling.

Once the module is configured, the parameters are saved in non-volatile memory. The device can be disconnected from the PC, or the RS-232 output from the module can be used for continuous data acquisition in addition to the analog output.

Alternatively, the **iDRN** signal conditioner can be connected to a PC's Ethernet port or an Ethernet network using the **EIS-2B** module as a Serial/Ethernet bridge.



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# iD Series



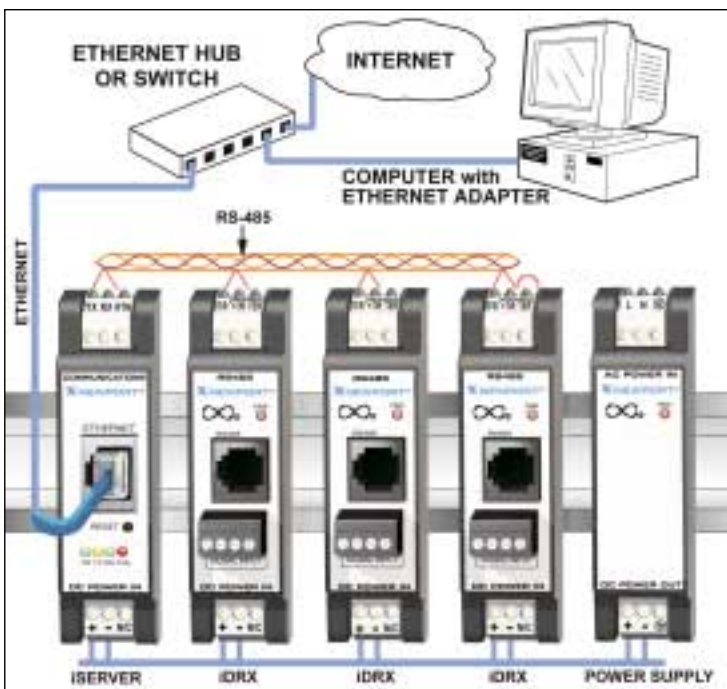
## ETHERNET and INTERNET

The **iDRX** signal conditioner can also be connected to an Ethernet network using the **EIS-2** module as a Serial/Ethernet bridge. One **EIS-2B** module can be a hub for up to 32 **iDRX** modules. The **EIS-2B** module packages the ASCII serial communications in standard TCP/IP Protocol for transmission over standard Ethernet networks and the Internet. Unlike some manufacturer's products this system uses totally open, non-proprietary standards and protocols for Ethernet and Internet. The user can integrate these devices with any commercial or industrial grade networking components that also comply with the popular international standards.

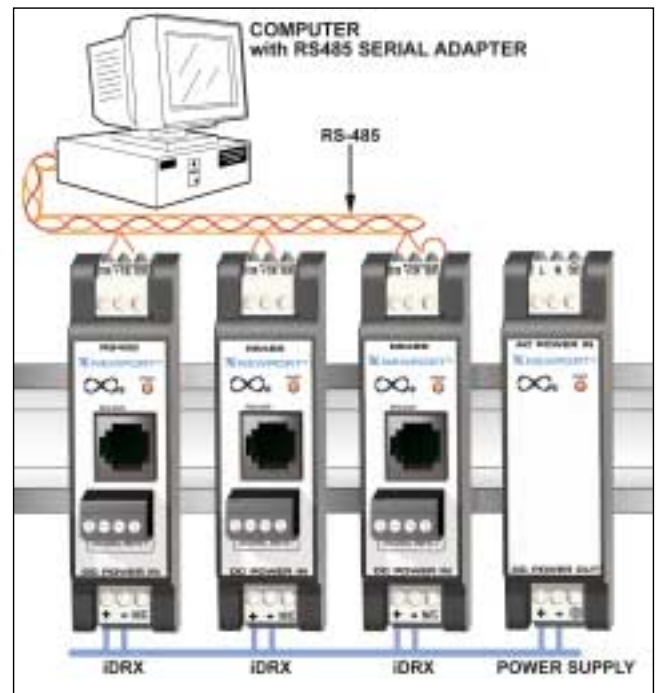
Access Vital information Anytime, Anywhere, on the World Wide Web



Get Internet E-mail Notification of Alarm Status on your web enabled phone or PDA.



Digital Output iDRX modules connected to Ethernet



iDRX modules on RS485 Serial Bus