NEWPORT®

RTD Signal Conditioners
iD Series

5 YEAR WARRANTY · MADE IN THE U.S.A. · CE · **Patented**

$250
iDRX-RTD

- ✔ **100Ω Pt, 500Ω Pt, 1000Ω Pt RTDs**
- ✔ **0.1°C Resolution**
- ✔ **±0.5°C Accuracy**
- ✔ **1800 V Isolation**
- ✔ **Free Setup and Configuration Software**
- ✔ **Factory Setup and Configuration Available at No Charge (for iDRN Analog Output models)**

The **iDRN-RTD** and **iDRX-RTD** signal conditioners provide highly accurate, stable, isolated measurement of RTD temperature sensors. Both models can accept 2, 3, or 4 wire 100Ω PT, 500Ω PT, and 1000Ω PT RTDs.

TWO MODELS: ANALOG or DIGITAL OUTPUTS
The **iDRN-RTD** provides a fully scalable analog output that is proportional to the input signal. The **iDRX-RTD** uses digital RS-485 communications.

ANALOG OUTPUT MODEL
The output of the **iDRN-RTD** can be user set for 0 to10 V, 4 to 20 mA or 0 to 20 mA. Input scaling and configuration of other operating parameters is accomplished by connecting to a standard RS-232 port of a personal computer and using the Windows-based setup software. Once configured the settings may be stored in non-volatile memory and the unit disconnected from the PC.

Factory Setup and Configuration at No Extra Charge (iDRN Analog Output Model)
Please Specify:
Type & Resistance
Temperature High & Low
Output Value High & Low
Example: Type Pt100; 0.00385; 4-wire; 0°C = 4 mA, 100°C = 20 mA

SERIAL I/O

A/IN **DI/O**
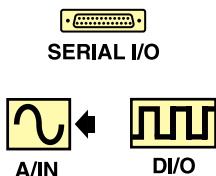
NEWPORT manufactures many types of RTD probes. Refer to our website www.newportUS.com

DIGITAL OUTPUT MODEL
The **iDRX-RTD** is a digital signal conditioner which communicates over an RS-485 communication link using either a simple, straightforward ASCII® Serial Protocol or MODBUS Serial Protocol. Up to 32 modules may be connected to a single RS-485 port stretching up to 4,000 ft. without repeaters.

ETHERNET CONNECTION
The Optional **EIS-2** iServer module can connect up to thirty-two (32) **iDRX** RS-485 Signal Conditioners to an Ethernet network and the Internet using standard TCP/IP protocol. The iServer can also be used as a simple Serial to Ethernet "bridge" or converter to connect a single **iDRN** RS-232 device to an Ethernet network and the Internet.

Specifications
Accuracy at 25°C: ±0.5°C
Input Types: Platinum RTD, 100Ω, 500Ω or 1000Ω element (2, 3 or 4 wire, 385 or 392 curve)
Resolution: 0.1°C

Power Consumption: 2.4 W (100 mA @ 24Vdc)

Input Range: -200 to 850°C (-328 to 1562°F)
i**DRX Output:** 2-wire (half duplex) RS-485 (NEWPORT® Serial Protocol and MODBUS Serial Protocol)

iDRN Output: 0-to-10 V @ 10 mA max; 0 to 20 mA or 4 to 20 mA, 10 V compliance

RTD Default settings iDRN: Input PT100, .00385, 3-wire, Range 0-1000°F; Output 4-20 mA (Custom Settings available at no charge.)

To Order *(Specify Model Number)*

Model No.	Price	Description
iDRX-RTD	250	Digital signal conditioner with RS-485 output for RTD Temperature Sensors
iDRN-RTD	355	Signal conditioner with analog output for RTD Temperature Sensors
-FS	**Free**	Factory setup and scaling

Each unit supplied with complete operator's manual.
Ordering Example: *iDRN-RTD digital signal conditioner ($355), and DB9-RJ12 connector adapter (30), $355 + 30 =* **$385**.

For iDRN/iDRX accessories and power supplies, please see start of this section.