NEWPORT®

Frequency/Pulse Digital Signal Conditioners

iD Series

5 YEAR WARRANTY

MADE IN THE U.S.A.

CE

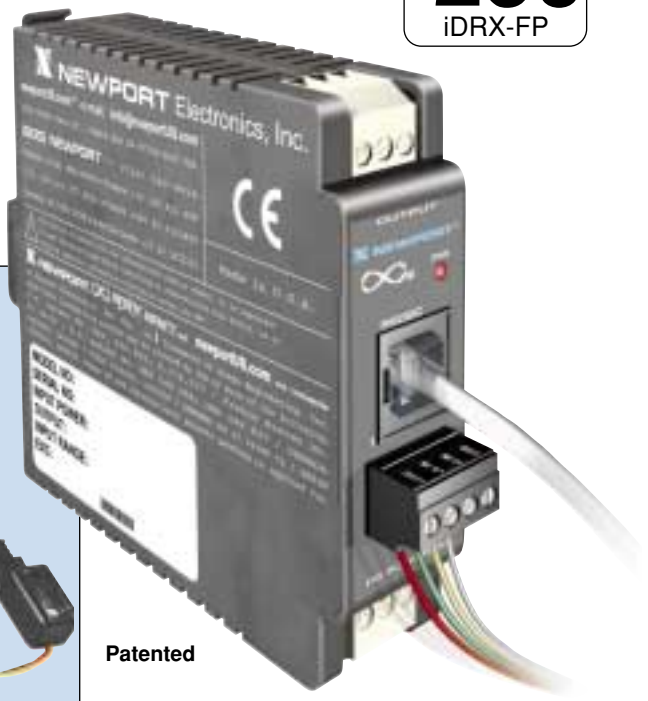
$250
iDRX-FP

- **Software Selectable Input Type**
- **0 to 50 KHz Frequency Input 2 Million Pulse Capacity**
- **Proximity, Switch, Magnetic, Pickup, NAMUR, Contact Closure and Open Collector Input Types**
- **RS-485 Output**
- **1800 V Isolation**
- **Free Setup and Configuration Software**
- **Factory Setup and Configuration Available at No Charge (for iDRN Analog Output models)**

DI/O

A/IN

SERIAL I/O



Patented

NEWPORT manufactures many types of Flow Transducers. Refer to our website www.newportUS.com

The **iDRN-FP** and **iDRX-FP** signal conditioners provide accurate, stable, isolated measurement of frequency and pulse signals. Both models measure frequency signals up to 50 KHz and can count up to two million pulses. The **iDRX-FP** and **iDRN-FP** are compatible with a wide variety of transducers including proximity, switch, magnetic pickup, NAMUR, contact closure and open collector transducers.

TWO MODELS: ANALOG or DIGITAL OUTPUTS

The **iDRN-FP** provides an analog output that is proportional to the input signal. The **iDRX-FP** uses digital RS-485 Serial Communication.

ANALOG OUTPUT MODEL

The output of **iDRN-FP** can be user set for 0 to 10 V, 4 to 20 mA or 0 to 20 mA. Scaling and configuration is done with the free software on a PC using either the standard RS-232 port, or an Ethernet connection with the optional **EIS-2B** module. Once configured the settings are stored in non-volatile memory and the unit disconnected from the PC.

Factory Setup and Configuration at No Extra Charge (iDRN Analog Output signal conditioners)

Please Specify:

Input Signal or Sensor Type
Input Frequency High & Low
Output Value High & Low
Excitation: 10 or 14 Volts dc
Magnetic Pickup (2-wire)
Example: 0 Hz = 4 mA, 1000 Hz = 20mA, Excitation N/A

DIGITAL OUTPUT MODEL

The **iDRX-FP** 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-2B** 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: ±0.1% FS for frequency/pulse input
Resolution: 15 to 19-bit
Power Consumption: 2.4 W (100 mA @ 24 Vdc) without excitation, 3 W (125 mA @ 24 Vdc) with excitation
Input Ranges: Frequency from 200 Hz to 50 KHz pulse from 20,000 to 200,000,000 (200M) pulses full scale
iDRX 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
FP Default settings iDRN: Input 0-20 KHz; Output 4-20 mA (Custom Settings available at no charge.)

To Order *(Specify Model Number)*

Model No.	Price	Description
iDRX-FP	**250**	Digital signal conditioner with RS-485 output for Frequency/Pulse inputs
iDRN-FP	**295**	Signal conditioner with analog output for Frequency/Pulse inputs
-FS	**Free**	Factory setup and scaling

Each unit supplied with complete operator's manual.

Ordering Example: *iDRN-FP signal conditioner ($295), and DB9-RJ12 connector adapter ($30), $295 + $30 =* ***$325****.*

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