



## What's New in ION 8000 Series v261

With the release of firmware v261, ION 8300, ION 8400 and ION 8500 meters have several new firmware features.

The factory-configured v261 template is available for download from the Power Measurement website.

Firmware v261 is also RMICAN approved.

### **Firmware Features**

Firmware v261 adds several capabilities to ION 8300, ION 8400 and ION 8500 meters.

- ◆ IRIG-B GPS Time Synchronization on page 2
- ◆ Enhanced DNP Functionality on page 2

### **Hardware Features**

The following hardware options can now be ordered. These options are not dependent on firmware version.

- ◆ 10Base-FL Fiber Option (Socket Only) on page 3
- ◆ External Relay Board (Switchboard Only) on page 3

# Firmware Features

## IRIG-B GPS Time Synchronization

The IRIG-B option is available with all ION 8300, ION 8400 and ION 8500 meters, firmware version 247 and later. These meters accept unmodulated IRIG-B time code via twisted pair, compatible with the IRIG-B00x format. The standard is outlined in the IRIG-STANDARD 200-98 "IRIG Serial Time Code Formats" prepared by the Timing Committee, Telecommunications and Timing Group, Range Commanders Council.

All IRIG-B equipped meters are configured in the factory to synchronize via GPS using unmodulated IRIG-B time code data.

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### NOTE

This option requires a receiver capable of unmodulated IRIG-B time code output (not included).

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See the *ION Reference* for a detailed description of the Clock Module.

See the *IRIG-B GPS Time Synchronization* product option document for specifications and configuration procedures.

## Enhanced DNP Functionality

A new DNP stack has been implemented for firmware version 261. See the latest version of the *ION 8000 Series DNP V3.00 Device Profile* document for more details.

Meters with v261 now support:

- ◆ Multiport DNP (maximum 3 simultaneous connections)
- ◆ DNP over Ethernet.

See the *Multiport DNP and ION Technology* technical note for more information.

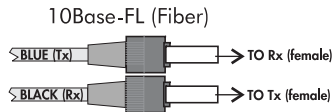
For more information on configuring this new functionality, see the DNP Slave Options module description in the latest version of the *ION Reference*.

# Hardware Features

The hardware features listed below are not dependent on firmware versions.

## 10Base-FL Fiber Option (Socket Only)

10Base-FL Fiber is available as an option on all ION 8300, ION 8400 and ION 8500 socket meters.



See the *ION 8000 Series Installation Guide* for fiber connection and configuration procedures.

## External Relay Board (Switchboard Only)

All ION 8300, ION 8400 and ION 8500 switchboard meters are available with an optional external relay board.

See the *ION 8000 Series Installation Guide* for dimensions and specification details.

