

Corporate Communications 1720 Molasses Way Quakertown, PA 18951

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Upcoming Training & Events

Upcoming Scheduled Courses: OrionLX/OrionLXm Automation Platform

March 7 - 8, 2017

Lenexa, KS

K700

For complete course descriptions, please visit our website www.novatechweb.com and search for substation automation training.

Upcoming Events:

DISTRIBUTECH

January 31 - February 2, 2017 San Diego, California Booth #1523

Spring E&O Conference

March 7 - 9, 2017 Warwick, Rhode Island

Latest Software

OrionLX Release: 8.8

Bitronics 50 Series Firmware: 3.13

Orion NCD3 Version: 3.30

Bitronics 60 Series Firmware: 2.21

Bitronics M87x firmware: 4.11

Bitronics PowerPlex II Firmware: 2.21

Bitronics 70 Series Configurator: 4.11

BiView: 3.05



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DistribuTECH 2017 Edition

January 31 - February 2 San Diego, California Booth #1523

See the latest in Substation Automation, Substation I/O, Panel Metering, PRC-002 Disturbance Monitoring, and Systems Engineering in NovaTech Booth #1523.

At DistribuTECH 2017, NovaTech is launching the new Orion I/O[™], offering the lowest cost per point in 2 RU, advanced diagnostics, and Cyber Security to substation I/O applications. Come by to see a demonstration!

Key features include:

- Advanced User Interface provides point status and diagnostics at the touch of a button. See Figures 1 and 2 for details.
- Security suite from the OrionLX™ including firewall, user groups, strong passwords, secure protocols and syslog
- High density: Up to 64 discrete I/O or 32 analog inputs in 2 RU
- Three available I/O cards:
- » 1ms SOE card with 16 inputs
- » Output card with 16 NO or NC outputs
- » Analog Input card with eight inputs
- · Modularity and Flexibility: Orion I/O ordered with any I/O Card in any of the four card slots.
- Serial and Ethernet communication ports offered in standard copper and optional fiber. DNP3, Modbus, IEC 61850 and IEC 60870 all supported. See Figures 3 and 4 for layout of ports.

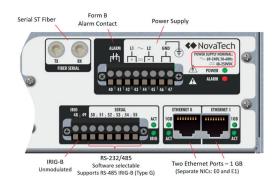


Figure 4: Rear ports for power, IRIG-B, serial and Ethernet communication

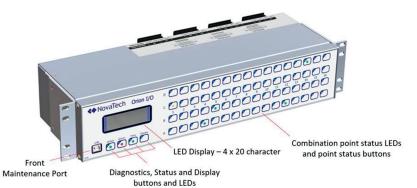
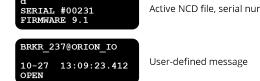


Figure 1: Advanced User Interface









Active NCD file, serial number, and fiirmware

Figure 2: Available status and diagnostic displays on the Advanced User Interface



Figure 3: Rear connections on Orion I/O. Four I/O cards shown populated in slots A, B, C, and D.

For more information on the NovaTech Orion I/O, please visit www.novatechweb.com/orion_io

NovaTech, LLC www.novatechweb.com

DistribuTECH 2017 (continued)

All NovaTech products will be powered up and displayed online in four NovaTech-designed cabinets.

Four server-based demo stations with monitors enable all products to be simultaneously demonstrated. The NovaTech SCADA Reporting package will be running on one of the servers, archiving data from OrionLXs and serving out preformatted SCADA reports.

1. Complete HMI RTU Cabinet with OrionLX CPX with Direct Video MMB driving a Transduction HMI. This fully-interactive RTU cabinet includes one-line diagram, IED zoom screens, the new Pre-Drawn Image Library and the Orion Alarm Tile Annunciator. The cabinet also contains our new Orion I/O, plus our current Distributed Discrete I/O and Distributed Combination I/O.

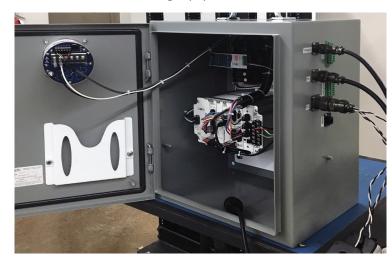




Relay Cabinet with different protective relays—
Cooper Form 6, SEL-351, Beckwith M7651 Feeder relay—all polled by an OrionLX. Also powered and on display: Bitronics® M660 Panel Meter with 61850 and the new Bitronics PowerPlex II with built in I/O. A special application demo includes the SEL-3610 port expander in a "passthrough" application between the OrionLX and an SEL® relay.



3. "Portable" Fault Recorder Assembly featuring the Bitronics 871 with the accurate split core CTs. This is the design recently installed in over 100 applications in an eastern utility to "upgrade" E/M line relays. This prepackaged and pre-configured Bitronics 871 can be installed and reporting in less than one hour, and measures fault magnitudes, calculates fault distance and records fault oscillography. Using this online assembly, our engineers can review and demonstrate the 871 features to meet the latest requirements for PRC-002 Disturbance Monitoring Equipment.



4. Wall-mount RTU to showcase NovaTech's ability to also produce smaller RTUs. This complete customer design includes the smaller universal-mount OrionLXm[™] with I/O, along with a Phoenix battery backup system.



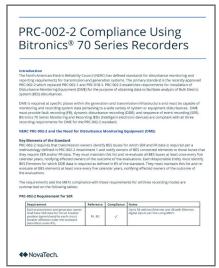
Check Us Out

In the upcoming January/February issue of "Electric Energy T&D" magazine.



Updated Literature: Solution for PRC-002

A new version of the PRC-002 standard is now going into effect. Our latest document, "PRC-002-2 Compliance Using Bitronics 70 Series Recorders," details features for compliance and application.



For this document, and all NovaTech literature, please visit www.novatechweb.com

