



January 2016 Update

ERLPhase Power Technologies

Best wishes from all of us at ERLPhase as we look forward to a happy and productive 2016!...

Welcome Scott Green



Welcome Scott Green, our Western Regional Sales Manager, who is based in the Salt Lake City area. Scott works with our customers in the Western United States (Northern CA to Alaska and Hawaii). Scott has been working with power equipment for over 30 years as a Distributer and Sales Manager. He recently has been working for Eaton and Siemens. Scott can be reached at +1 801-403-6057 or at sgreen@erlphase.com.

Introducing ERL I/O Expansion IED

for standalone digital input/output expansion



The ERL I/O Expansion IED is a stand-alone digital input/output expansion IED that supports 128 physical digital inputs (DIs), 15 output contacts, 128 subscription virtual channels for record triggering and 15 subscription virtual channels for output contact controls. The ERL I/O Expansion IED uses IEC 61850 GOOSE (Generic Object Oriented Substation Event) station bus (8-1) enabled protocol to publish and subscribe the binary input/output messages with ERL Devices and other IEDs supporting IEC 61850 GOOSE subscriptions.

Digital input statuses are communicated to multiple IED's in the network and to SCADA, which expands access to such information without costs to add additional IED's, and reduces the problems associated with having multiple IED's communicate with each other. In the event of a loss in the GPS time source, the I/O Expansion IED generates and provides 1pps unmodulated IRIG-B signal across up to 5 connected IED's, thereby ensuring time synchronization across these IED's

TESLA 4000 power system recorder has provision for up to 256 virtual inputs to receive and record the time and status of events contained in IEC 61850 GOOSE messages. Connect two ERL I/O IED's with one TESLA 4000 to get 256 additional status inputs. Learn more at our website [ERL I/O Expansion IED](#) product page.

Updated S-PRO Firmware, Relay Control Panel & Offliner



Recently released S-PRO enhancements include:

- Extended monitoring of sub-harmonic frequencies to 5-55 Hz (60 Hz system) and 5-45 Hz (50 Hz system) with a detection resolution of 0.2 Hz
- Enhanced operating speed between 200-450ms
- Incident trending to protect generators and other equipment against sustained sub-harmonics beyond normal levels, including levels not causing SSR

Contact [Customer Support](#) for more information or to request firmware files.

CE Certification for TESLA 4000 Power System Recorder



We are pleased to announce that the TESLA 4000 Power System Recorder is now CE certified. The CE certification enables TESLA supply to those markets that

require the product to meet the environmental, safety and other technical requirements as per the CE regulations for its category.

John Swindlehurst, President of ERL America's, comments, *"The TESLA is the second in our product family to undergo the stringent safety requirements required for CE certification, following certification of our S-PRO Sub-Harmonic Protection relay earlier in 2015. We look forward to announcing certification of additional products later this year."*

New TESLA Input Modules

AC Current Input Module



The AC Current Input Module provides 4 isolated current channels for the TESLA Power System Recorder. It provides conditioning and isolation between the main CT secondaries and the inputs to the recorder. The nominal current input to these modules can be either 1A or 5A and outputs from the modules are scaled to connect directly to the TESLA's analog input terminals.

See [AC Current Input Module datasheet](#) for full information, including options available.

AC Voltage Input Module



The AC Voltage Input Module provides 3 (Model 401006) or 4 (Model 401026) isolated voltage channels for the TESLA Power System Recorder. It provides conditioning and isolation between the main PT/VT secondaries and the inputs to the recorder. The nominal signal level is 69 Vrms ($120 \sqrt{3}$) with a full-scale 2x over-range capability that can be sustaining continuously.

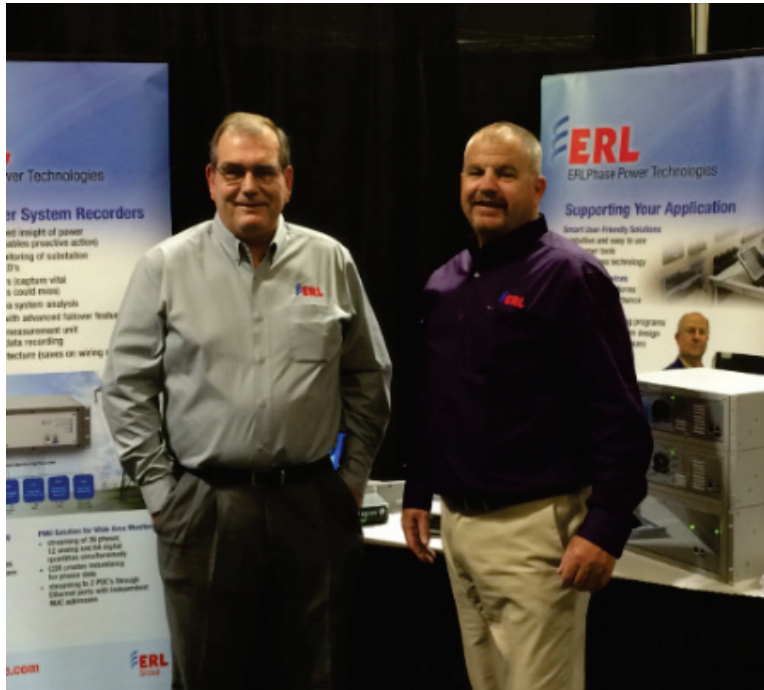
See [AC Voltage Input Module datasheet](#) for full information, including options available.

RecordBase Central Station

A new version of RecordBase Central Station Software(v3.0) has been released which removes dependence on Microsoft Access Runtime and adds enhanced functionality for COMTRADE export and Virtual Input interpolation. To request a copy and for further details contact us at support@erlphase.com.

Fall Shows: WPRC, MIPSYCON, NASPI &

CONCAPAN



Thanks to all our customers who visited us at tradeshow this fall. We always enjoy conference discussions and it was a great chance for John Csisek (Protection Products Sales Manager) and Scott Green (Regional Sales Manager, West) to meet with current (and future ;)) customers.

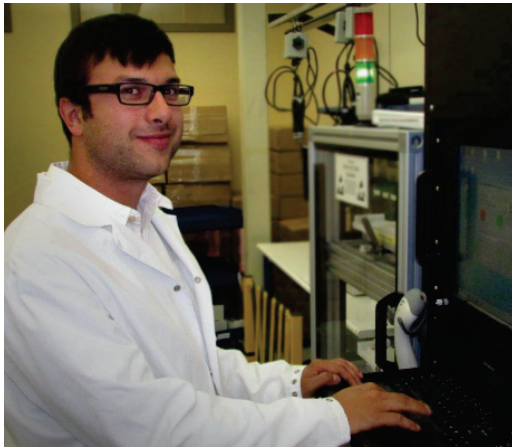
See you at DistribuTECH!



For those of you attending DistribuTECH in Orlando in early February, we invite you to visit us at booth #1932. You are welcome use this complimentary "["exhibits only" pass](#)" (pre-register, or print it and bring it with you to the show).

Learn more about the show at [DistribuTECH's website](#).

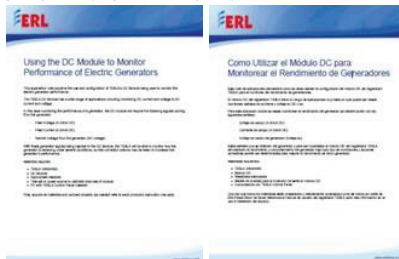
ERLPhase Asia Pacific



Meet Frederick Davinson, who is our international sales contact for all customers in Australia and New Zealand. Based in Brisbane, Australia, Mr. Davinson is a mechanical engineer with experience in project management, risk management and solving complex problems. He is looking forward to working with protection and control customers in the Asia Pacific region, and may be reached at +61 (0) 7 33 55 6419 or fred.davinson@erlpacific.com.

New Application Notes

Using the DC Module to Monitor Performance of Electric Generators ([English pdf](#)) or ([Spanish pdf](#))

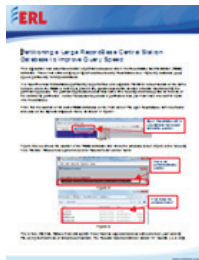


This application note explains the use and configuration of TESLA's DC Module to monitor electric generator performance. The TESLA DC Module has a wide range of applications including monitoring DC current and voltage to AC current and voltage.

Installation Instructions for RecordBase Central Station Without MS Access Runtime ([English pdf](#))



Partitioning a Large RecordBase Central Station Database to Improve Query Speed ([English pdf](#))



This application note describes creation of partitioned access links in the RecordBase Central Station (RBCS) database. These links enable display of specific data sets using RecordBaseView, improving database query speed, particularly for large databases.

Upcoming Events

- **DistribuTECH 2016**
Feb 9-11, 2016
Orlando, FL
Visit us at booth #1932!
Complimentary ["exhibits only" pass \(PDF\)](#)
Learn more about [DistribuTECH](#)
- **Texas A&M**
Apr 3-7, 2016
College Station, TX
Visit our booth!
Learn more about [Texas A&M](#)
- **GA Tech**
Apr 18-22, 2016
Atlanta, GA
Visit our booth!
Learn more about [Fault & Disturbance Analysis Conference](#)
Learn more about [Protective Relaying Conference](#)
- **IEEE T&D**
May 2-5, 2016
Dallas, TX
Visit us at booth #2901!
Learn more about [IEEE T&D](#)

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