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May 2016 Update

ERLPhase Power Technologies

Happy spring! Here's what's new at ERLPhase...

Spring Shows

It's been a busy spring, getting out and visiting customers at DistribuTECH, at Texas A&M Protective Relaying Conference and at GA Tech (Fault & Disturbance Analysis Conference as well as Protective Relaying Conference).



ERLPhase booth at DistribuTECH in Orlando in February.

Looking forward to seeing you at the IEEE T&D in Dallas this week! Come visit us at our 10x20 booth #2901 or [email us](#) if you'd like to book an appointment in advance.

We can also offer you 50% off a one day exhibit hall registration. Just register in advance at www.ieeet-d.org/register with promotion code "30219EE", or click on image below to save an invitation which you can bring with you for onsite registration at the show.



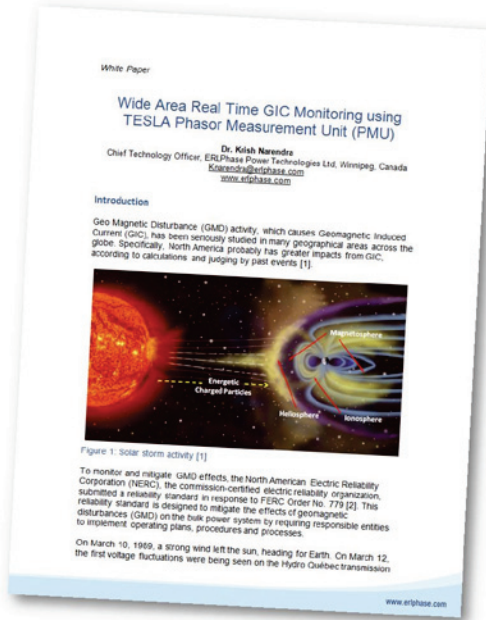
ERLPhase White Paper on GIC Generates Excitement at NASPI

Dr. Krish Narendra presents at NASPI Synchrophasor Symposium and releases new white paper...

Wide Area Real Time GIC Monitoring using TESLA PMU

(White Paper, released April 2016)

Link to [pdf](#)



Many of our customers are dealing with issues related to monitoring and mitigating the effects of geomagnetic disturbances. We've recently released a white paper exploring real time measurement techniques in relation to current reliability standards from North American Electric Reliability Corporation (NERC) and Federal Energy Regulatory Commission (FERC). As utilities implement updates to their operating plans, procedures and processes, they are utilizing PMU data to help

handle wide area GIC event system contingencies in real time.

Visiting Customers... and Customers Visiting Us!



Bob Grant is a guy that wears many hats, so to speak. And one that he enjoys most is getting out to visit customers, especially if that involves a trip to beautiful North Dakota and Minnesota.

So far this year we've performed several training sessions in person, and via web conference.

RecordBase Central Station Training in Houston

In January our team provided RecordBase Central Station training to a wind energy customer in Texas that uses TESLA in several locations. Their team is setting up a central database and event retrieval software package to automatically retrieve event records from their recorders, and notify them of events. They manage the data at their many wind farms, analyze events that occur and adjust their system as appropriate.

Relay Communications Training in New Orleans

Also in January we provided on-site training at Entergy about set-up and communication for the B-PRO, T-PRO, and L-PRO relays throughout their system. Training was followed up with a web-based session in March overviewing the T-PRO 4000 and RecordGraph event analysis. Engineers and technicians from Entergy Standards, Design Engineering, and Field Services Groups appreciated this assistance and look forward to additional sessions later this year.

TESLA PMU Setup and Training in Houston

In February we assisted with setup of a TESLA demo unit for PMU applications. The training we provided, as well as assistance with drawings, helped our customer complete their TESLA evaluation and prepare for installation of a TESLA unit and cabinet in their system.

International Network



ESP Incorporate represents ERLPhase to support our customers in South Korea. We were pleased to welcome Sokil Kim (CEO) and Hoseoung You (Protection Specialist) who visited our Winnipeg head office in December for product training and discussions.

So far this year we've also held customer meetings throughout Latin America and delivered training in Dubai for Karachi Electric Engineers.

Looking for Training?

Let us help... our team of experts can assist with training and support in a variety of areas, including wide area monitoring (WAM) and synchrophasors, analysis of waveforms captured by disturbance fault recorders during a system event, or planning for future expansion of your system.



With a unique combination of expertise, our trained field application and customer support team can provide on-site or web-based training tailored for you:

- commissioning of ERLPhase protection and control systems
- wide area measuring systems including use of PMU to monitor and mitigate the effects of geomagnetic disturbances
- digital fault recording systems

So bring us your thoughts and your questions... we are here to help and working with our customers is what we love to do!

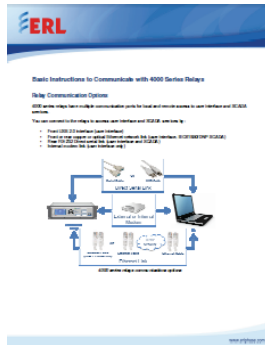
Achilles UVDB Verification



ERLPhase is pleased to announce that our company is now fully registered as a supplier on UVDB. Some ERLPhase customers use Achilles to manage supplier risk and streamline procurement. View this and other ERLPhase [product certifications](#) on our website. Learn more about [Achilles UVDB certification](#).

New Literature

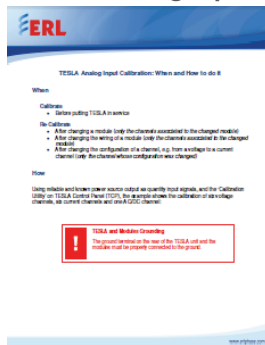
Basic Instructions to Communicate with 4000 Series Relays ([pdf](#))



This application note outlines various communication options for connecting to relays when accessing user interface and SCADA services. Screen captures illustrate the process for connecting via:

- Front USB 2.0 interface (user interface)
- Front or rear copper or optical Ethernet network link (user interface, IEC61850/DNP SCADA)
- Rear RS-232 Direct serial link (user interface and SCADA)
- Internal modem link (user interface only)

TESLA Analog Input Calibration ([pdf](#))



This application note describes when and how to perform TESLA input calibration, both during initial TESLA installation, and re-calibrating if a channel is reconfigured or if a module or its wiring having been changed.

Upcoming Events

IEEE T&D

May 2-5, 2016

Dallas, TX

Visit our suite!

[Learn more about IEEE T&D](#)

RVP-AI

Jul 17-23, 2016

Acapulco, Mexico

Visit us!

[Learn more about RVP-AI](#)

WPRC

Oct 18-20, 2016

Spokane, WA

Visit our booth!

[Learn more about WPRC](#)

Minnesota Power Systems Conference

Nov 8-10, 2016

St Paul, MN
Visit our booth!
[Learn more about MIPSYCON](#)

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