Products under Development

FMRI - Relay interface

The FMRI is a high accuracy, galvanically-isolated servo amplifier that provides a seamless interface between the FMPT voltage sensor and existing electromechanical and electronic relays requiring 69 or 120 VAC input signals and up to 75 VA of power. The FMRI can be powered from substation bus power or it can be powered from an upgraded FMPT voltage sensor.

OI/MetPod

The Optically-Interfaced MetPod provides another option for customers who prefer an alternative to a wireless data link between high voltage and ground. An optical fiber link between the MetPod and user equipment can provide high-quality, real-time bandwidths of 10 kHz for both voltage and current signals. The standard telecommunications fiber carries digitized data for ultimate immunity to EMI, mechanical stress and vibration. The fiber link uses an industry-standard digital format protocol.

FMPS-Power Source

The FMPS is a power source supplied by an energized power line that provides up to 100's of Watts of high-grade electrical power in a low weight, compact package. Power can be provided either on the line or at ground potential. The FMPS is an ideal power source and support platform to enable the deployment of sensor and control equipment on the transmission and distribution grid at low cost and in unconventional installation locations.

IEC 61850 Digital Interface

A digital interface in compliance with IEC 61850 is under development for the MetPod for customers interested in adopting FieldMetrics sensors into new or retrofitted substations that rely on this new communications standard.

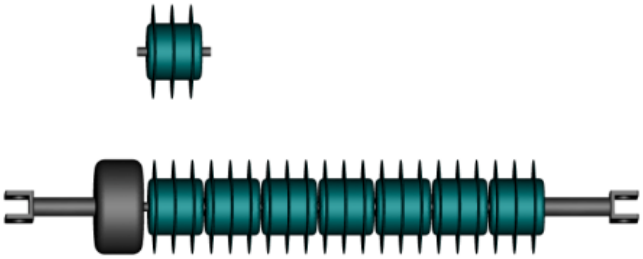
FieldMetrics®, Inc.
13352 82nd Avenue
Seminole, Florida 33776 -3126 USA
Lab: 9021 Oakhurst Rd., Suite A

Phone: 727-698-1742
Fax: 727-231-0729
Email: sales@fieldmetricsinc.com
http://www.fieldmetricsinc.com

Ongoing R&D Efforts supported by SBIR funding

Modular Voltage Platform

Improved instrumentation is vital to ensure a secure and reliable power grid across North America. The modular voltage monitor serves as the basis for a next generation low-cost sensor platform suitable for widespread deployment across the electric utility grid to improve efficiency and reliability of transmission lines.



Low cost Optical Voltage Sensor

Develop a low cost, high accuracy optical voltage measurement system for use from 13.8 kV – 765 kV.

Non-perturbing multi-axis magnetic field sensor

Plasma fusion research experiments require magnetic field measurements over a wide range of bandwidth and sensitivity. The optical sensors being developed are ideal diagnostics for heavy ion fusion experiments that support the long-term goal of cost-effective fusion power and energy self-sufficiency for our nation.

Other Ongoing Activities

Develop and manufacture a novel, high performance insulated wire system for the Stockpile Stewardship Program.

Develop a pulsed power system for high repetition rate, high average power operation outside the laboratory.

ISO 9001 Certification

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