

you can't miss it

2 Toshiba - New Multi-function Relay Series

Toshiba announces the launch of a new range of low-cost, high quality, numerical multi-function relays designed for protection applications in MV networks.

The first model within the series, GRE110, is now available, providing a comprehensive range of feeder protection and CB control functions, as well as the capability to be applied as motor protection, and as back-up protection for generators and transformers.

A user-friendly HMI is provided through a backlit LCD, programmable LEDs, keypad and menu-based operating system, while PC access is achieved by:

- direct connection to a front-mounted USB port, or by
- remote interrogation via a rear-mounted RS485 port



3 AREVA T&D

announced the acquisition of Vamp



AREVA T&D has announced the acquisition of Vamp, the Finnish-based specialist in arc

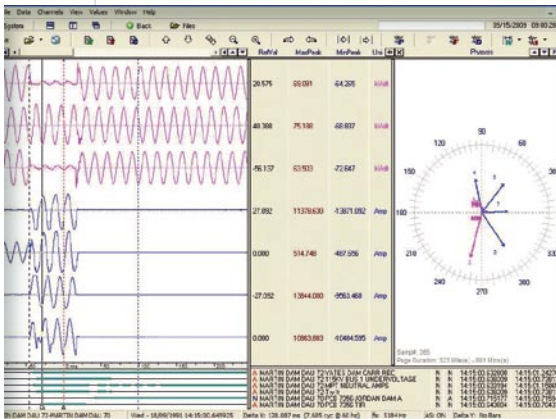
protection and protection relays. Vamp's products, are used in a number of applications in the

world leader in this field. By acquiring Vamp, AREVA T&D will add new features and complement its existing portfolio of protection relays. Together, they will continue their focus on close cooperation with customers, leading universities and research institutes, with a strengthened position in the global protection market.



industrial and distribution segments, their unique arc protection enhances the safety of both people and property and has made Vamp a recognized

4 Basler Electric's New BESTWAVEPlus Software



High-resolution graphical analysis interface designed to display, analyze, and manage fault records in the standard IEEE COMTRADE format and read/view all COMTRADE files from any manufacturer's relay, meter, or fault recorder.

It offers flexible analysis tools for navigating traces, amplitude and time scaling, superimposing traces, peak detection, harmonics, instantaneous and RMS values, primary and secondary values, phase calculations, sequence components, channel triggers, and waveform envelopes.

File management capabilities allow users to merge, append and adjust files for time synchronization. BESTWAVEPlus may be used for real time monitoring of evolving load abnormalities, dynamic relay testing, contingency planning, and intelligent maintenance applications.



Walt Elmore

Walt Elmore passed away the night of 20 January 2010. He was a member of the Power System Relaying Committee for more than 50 years, with his first meeting being in September 1957.

He served in the Army Air Corps as a navigator during World War II.

A graduate of the University of Tennessee, he started his career at Memphis Light Gas and Water before joining Westinghouse Electric. He held 4 patents and authored many

technical papers on the subject of protective relaying. He was a Life Fellow of the IEEE. He served in many functions of the IEEE, PES and PSRC. He was chair of the PSRC from 1983 to 1984 and continued to make significant contributions to the committee until just recently. He was awarded the IEEE Medal for Engineering Excellence in 1989.

Walt Elmore was the first Guru in the PAC World magazine.

6 Everything You Need for Capacitor Bank Protection and Control in One Relay from SEL

The SEL-487V Capacitor Protection and Control System combines synchrophasor technology and flexible communications with complete capacitor bank protection and control in one economical relay.

The SEL-487V protects and controls grounded and ungrounded, single- and double-wye capacitor banks. The settings assistant, based on the IEEE C37.99 standard, automatically performs calculations for application-based settings. Faulted phase and section identification logic quickly locates faulty capacitor units, reducing repair time and cost. Synchrophasor technology improves situational awareness and provides real-time control.



7 The OMICRON SVScout makes IEC 61850 Sampled Values visible

The OMICRON SVScout makes IEC 61850 Sampled Values visible for the substation engineer and IED developer.

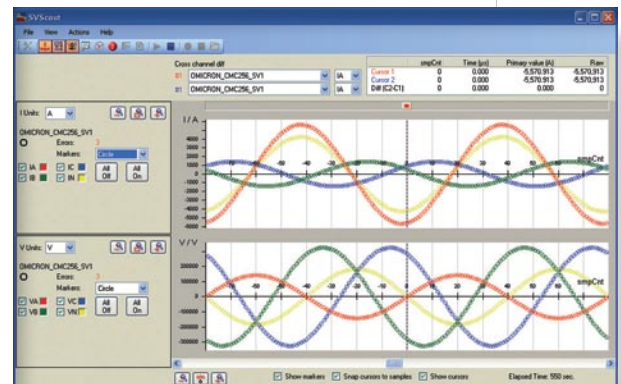
One important application is testing merging units by comparing two SV streams.

SVScout subscribes to Sampled Values streams from merging units and displays the waveforms with their electrical units. Detail values can be looked up and compared

with the cursor functions. The phasors are calculated from the Sampled Values and displayed in a phasor diagram.

Captured Sampled Values can be saved in COMTRADE files for further in depth analysis.

When used with a special network adapter, SVScout provides accurate details about the timing of the data packets.



8 Relion protection and control from ABB

Relion protection and control product family offers a comprehensive portfolio of protection and control products, designed to the IEC 61850 standard, for generation, transmission, distribution and industrial applications. To ensure interoperable and future-proof solutions, Relion protection and control IEDs have been designed to implement the core values of the IEC 61850 standard. These products interoperate with other IEC 61850 compliant IEDs, tools

and systems. Their performance meets comprehensive communication tasks, for example, GOOSE

messaging for horizontal communication. One common tool, PCM600, for all Relion products from application and

communication configuration to disturbance handling ensures maximum engineering efficiency.



9 NR Delivers Smart Substation Solution

NR Electric introduces the smart substation solution which integrates MMS, GOOSE, SV, GMRP, SNTP and IEEE-1588 of IEC61850, enabling the complete digitalization of modern substations. The communication is composed of two independent LANs used as station bus and process bus respectively. Electronic CT/VT and Merging Unit are used to transmit sampled value over process bus using IEC61850-9-2. The Intelligent Control Unit installed in switchyard executes GOOSE input/output and GOOSE tripping command. The GOOSE interlocking is realized by NR's PCS series protection & control units. This solution has been successfully implemented in a 500kV substation for more than one year.

