GE Consumer & Industrial
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PRESS RELEASE

GE Multilin unveils first generator protection relay to support Synchrophasor monitoring.

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MARKHAM, Ontario, Canada, -- GE Multilin today unveiled many new enhancements to its industry leading G60 Generator Protection System. Designed to protect and control medium to large-sized AC generators, the enhanced G60 employs advanced protection features and is now the first generator protection system in the world to support Synchrophasor monitoring.

Already the standard for protecting newly installed GE generators, the G60 with Synchrophasor capability allows power providers to monitor how instabilities in their power system are affecting their points of generation. Synchrophasor monitoring in the G60 gives system operators synchronized snapshots of instabilities occurring throughout their system and allow them to make intelligent decisions to quickly react to these system problems before the generators are needlessly tripped offline.

Exceeding the latest IEEE C37.118 standard for Synchrophasor measurement devices, the G60 provides Synchrophasor streaming over an Ethernet connection as well and triggered records of Synchrophasor data. These Synchrophasor measurements are updated every 16.67 ms (1/60 of a second) providing critical millisecond recording of power system disturbances. Using the Synchrophasor data transferred to system operation centers for analysis along with the advanced automation functions in the G60, power providers are able to control the dynamics of the electric power grid and mitigate network stability issues.

The G60 has also been enhanced with additional protection and controls functions to provide users with tools to identify and prevent impending generator problems. Specifically, the G60 now supports Accumulated Over/Underfrequency protection that is used to monitor the amount of time a generator has been running at off-nominal frequencies and trigger alarms indicating that maintenance is required. The G60 now has Enhanced RTD monitoring that has separate temperature settings for Alarming and Tripping the generator. The G60 can detect RTD shorting conditions, and can implement RTD voting to ensure multiple RTDs detect an overtemperature condition before bringing the generator offline.

The G60 is an advanced protection relay that contains all of the necessary protection and control functions for monitoring and protecting most AC generators. The G60 supports leading edge communications technologies including fiber optic Ethernet communications for remote data and engineering access as well as for easy integration of generator information into new or existing DCS or SCADA systems. Most industry standard protocols are available in the G60 including Modbus, DNP3.0, IEC06870-5-104 and IEC61850 Client/Server and GOOSE Peer-to-Peer messaging, which results in reduced wiring, fewer external devices, and lower commissioning costs.

About the UR Family:
The UR is a family of leading edge protection and control products built on a common modular platform. All UR products feature high performance protection, expandable I/O options, integrated monitoring and metering, high-speed communications and extensive programming and configuration capabilities. The UR forms the basis of simplified power management for the protection of critical assets, either as a stand-alone device or within an overall power automation system. For more information, visit the website at www.GEMultilin.com/URFamily

About GE Multilin:
GE Multilin designs, manufactures, markets and supports a complete line of protection, metering, control and automation systems, as well as power sensing and industrial communications equipment for utility and industrial applications.
Visit www.GEMultilin.com.

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