

WHY UPGRADE?

AN EVOLUTION IN PROTECTION TECHNOLOGY

Although they all make phone calls, new cell phones are released with a host of useful features. This is also true for devices providing distribution protection.

Why did you upgrade protective relays in the first place?

- Digital Technology
- Self-Diagnostics
- Oscillography
- Sequence of Events
- Communications
- Application Flexibility

Why would you want to upgrade now?

- NERC CIP Compliance
- Cyber Security, including IEEE 1686
- Power Quality Monitoring (Sag, Swell, THD, SST)
- 100 Disturbance Fault Records of up to 128 samples per cycle and up to 480 cycles each
- Data Logging for >2 Years at 5 min. intervals (user adjustable)
- 5,000 Sequence of Events Records with PQ Viewer (ITIC Curve)
- True multi-user, multi-protocol Ethernet ports
- Custom Mappable DNP 3.0
- IPSCom S-7600: Uncomplicated Software for Complex Applications











Advanced Distribution Protection and Recloser Control Upgrade Solutions

Protection & Control

- Over 25 Protection Elements for optimal protection of Power Distribution Systems
- Settings Wizard
- Comprehensive I/O Matrix provides visual confirmation of enabled functions and selected outputs
- Four user programmable Inputs and Outputs, expandable to twelve
- User programmable front-panel LEDs and pushbuttons

Monitoring

- Power Quality Monitoring up to the 63rd Harmonic including THD
- ♦ PQ Viewer (ITIC Curve)
- ♦ Sags, Swell and Sub-Synchronous Transient Detection
- Advanced Data Logging and Load Profile Recorder
- ♦ 5,000 Sequence of Events Records with PQ Viewer (ITIC Curve)
- ♦ 100 DFR quality Records with adjustable sampling rate up to 128 s/c

Automation/Communications

- Front panel USB and SD Card ports for local programming and data transfer
- One or two optional serial ports (TIA-232, TIA-485 or Serial Fiber)
- Optional single or dual Ethernet ports with simultaneous multi-user and multi-protocol support
- Protocols supported include:
 - ♦ MODBUS, DNP3.0 and SmartP2P
 - ♦ Optional: IEC61850, IEC60870-5-104 or 2179
- ♦ Comprehensive Cyber Security tools for NERC CIP Compliance
- ♦ IEEE 1686 Compliant
- Customizable DNP Mapping

IPScom®: Uncomplicated Software for Complex Power System Applications

- ♦ Integrated Metering, DFR and PQ Visualization Tools
- Search and filtering tools for analysis of SoE,
 DFR and PQ records
- ♦ IPSlogic Programmable Logic

Flexibility

 Fast and easy retrofitting for most popular relays in existing cutouts using Beckwith's Adapter Panel Technology™

