



EPESOL  
**Relay  
& Control**

A Complete One-Stop  
Solution for Power Industry



Partner  
GE Energy



EPESOL's protection relays & control solutions is a rich blend of best solutions available worldwide. Being a *Partner* of **GE Digital Energy**, *Representative* of **Arteche**, Spain and involved in indigenous designing, our products line up offers complete one stop solution to your needs. Now running into some problem is an anomalous event because our strong after-sales and technical support is always there for you.



**EPESOL**  
P v t . L t d .

EPESOL.com





G60



SR489

- Primary protection in cogeneration applications.
- Advanced CT saturation detection algorithms.
- 100% stator ground protection 3rd harmonic.
- Reduced load fluctuations.



## Smart Generation



## Smart Transmission



D90  
D60  
L90



MIV II

- High-speed cost-effective five zones, quad or mho, selectable distance protection
- Complete IEC 61850 Process Bus solution with various other protocols
- Capability to protect Overhead lines including series-compensated lines and underground cables



F60



MIF II

- High speed, reliable, open and scalable protection systems.
- Advanced automation capabilities for customized protection and control solution.
- Improved and efficient over-current and earth fault algorithm.
- Breaker health monitoring capability.
- Dependable fault and event recording with remote accessibility



## Smart Distribution



## Smart Motoring



339



M60



489

- It has Short Circuit, over temperature, Mechanical Jam, Undercurrent, under frequency and Thermal Overload
- Reliable & dependable Thermal model supplement by RTD's
- Time stamped event reports, waveform capture, motor start and motor trendin

## Transformer Protection

Now You Know It All!



SR345



745



T60

EPESOL offers best GE solution for Power Transformers, the most critical assets of a power system, for all sizes and applications.

- ✓ Reliable Differential Algorithm for 2 and 3 winding transformers
- ✓ Enhanced Event & Fault Recording Feature
- ✓ Friendly User Interface
- ✓ Advanced automation capabilities using FlexLogic
- ✓ Easy integration into new or existing installation



### PMTB — GE

- Used for Isolation of relays and meters from instrument transformers for testing.
- Semi-flush front access mounting on switchboard panels.
- Used for Simultaneous testing of up to 14 independent circuits



### EPTS — EPESOL

- 14 Finger Modular Design with selectable configuration
- Designed as per IEC standards
- Special Cover Opening Alarm feature.
- No additional test plug needed.
- Physical isolation and provision for Banana Heads.

### B90 - Bus bar Differential Relay:



- Low impedance bus bar protection.
- Suitable for various bus configurations
- Scalable, highly reliable & dependable algorithm to protect up to 24 feeders
- Provides fast and secure sub-cycle tripping times
- Three-pole breaker failure (BF) protection included
- Additional facility of monitoring and recording faults & events





- Self reset relays (RJ-8, RD-2, RF-4, RI-16)
- Lockout relays (BJ-8, BF-3, BF-4, MI-16)
- Time-Lag relays (TDF-2, TDF-4, TDJ-8)
- Supervision relays (VDF-10, VDJ-30)
- Self power relays (smART SP)



F35



CCU1000

### Automation Hardware

- **F35** - Multiple feeder management relay
- **DDFR** - Distributed digital fault recorder
- **HardFiber** - Process Bus Solution
- **CCU1000** - Central control unit

Offering one window solution for entire protection system, with EPESOL.

- Supervision relays
- Flasher & battery earth fault relays
- Annunciators, heaters and hygostats
- Under voltage and time delay relays
- Temperature gauges
- Over current relays (LV applications)
- Over load relays (LV applications)

## Substation Automation Systems

### Why Automation...

- Acquire and distribute large amount of real-time data
- Manage, correlate and share non-operational data
- Perform the functions of several individual devices within one device
- Reduce capital expenditures
- Fewer devices to wire and configure, reduce installation cost
- Reduce engineering & commissioning costs

## Smart Metering!

'cause every unit matters

### Essential Power Monitoring



EPM 6000

- Supervision Systems (SCADA) integration
- Distributed Control Systems (DCS)

### Power Quality & Cost Management



PQM II

- Cost-center billing
- Energy profiling
- Demand dispatch

### Advanced PQ Analysis



EPM 9000

EPM 9800

- Substation remote monitoring
- Transmission wholesale energy measurement



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