W700

Auto Recloser Controller

ω700 is a powerful microcontroller based system which connects to a recloser switch. Capability to detect various types of faults is implemented so suitable commands can be directed. Communicating via standard protocols along side with the potential to configure properties of objects makes this device convenient to use.

Protection

Instantaneous Over Current – 2 elements
   Phase
   Earth/ Calculated Residual
   Negative Sequence

Inverse Time Over Current – 63 curve
   Phase
   Earth/ Calculated Residual
   Negative Sequence

Definite Over Current
   Phase
   Earth/ Calculated Residual
   Negative Sequence

Sensitive Earth Fault

Intermittent Earth Fault

Broken Conductor

Synchronism Check

Over / Under Voltage

Over / Under Frequency

Ground Over Voltage

Second Harmonic Blocking

Inrush Restraint

Cold Load Restraint

Direction Detection

Open Line Detection

Auto Reclosing
   Phase
   Earth
   Negative Sequence

Sequence Coordination

Hot Line Tag

Measurement

Voltage Source/ Load

Current Phase/ Earth

Power Active/ Reactive/ Apparent

Power Factor

Frequency

Temperature

PQM

Sag/ Swell/ Interruption

Displacement Power Factor

Sequence Components

THD Voltage/ Current

Harmonic 2-40th (Odd/Even) Voltage/ Current

Voltage/ Current Unbalance

Recording

Fault Event

Digital I/O Event

System Event

PQM Event

Alarm Event

Counters Switch Open, Switch Close, ...

Demand

Load Profile

Waveform Pre-fault – duration – Post-fault

Additional Functions

4-Quadrant Metering

Max Demand

Analog Alarm

PQM Alarm

Setting Group

Analog Input

6 Voltage Source/ Load

4 Current 3 phase/ 1 Earth

Digital Input/ Output

10 Output

5 Input

HMI

160 * 160 Graphic Display (BW)

17 Button Keyboard

40 Led Indicator

Communication

Ethernet – DNP3.0, IEC60870-5-104, AES128 Supported

Serial RS232 – DNP3.0,IEC60870-5-101, AES128 Supported

Serial RS232 – HMI Software

RS485 – Modbus RTU

Hardware

Power Supply

Battery Charger

Battery Test Circuit

Environment Condition

Operating Temperature -25 to +70 º C

Humidity < 95% RH

Altitude < 2000 m