

W700

Recloser Controller



W700 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 °C

Humidity < 95% RH

Altitude < 2000 m

Standards

IEC 61000-4-2/ 3,4,5,6,8,11,17,18,29

IEC 61000-6-5

IEC 60068-2-1 / 2,6,27,30

IEC 60255-1 /27,151

IEEE C37.1

CISPR22