

W8010

Modular Multi Feeder Terminal Unit



affra
www.mashadtadbir.com

W8010 a Modular multi feeder terminal unit for distribution automation which controls and monitors (up to 15) Load Break Switch(s). It measures various electrical quantities of power line and transmits data to control center through remote communication.

The most important benefits are modularity, configurable features, fast calculation, high resolution and complete and user friendly HMI.

Fault

Over Current
Phase
Earth
Negative Sequence
Broken Conductor
Cold Load
Phase
Earth
Negative Sequence
Inrush Restraint
Phase
Earth
Negative Sequence
Synchronism Check
Direction Detection
2 nd Harmonic Block
Open Line Detection
Live Line Detection

Measurement

Voltage
Current Phase/ Earth
Power Active/ Reactive/ Apparent
Power Factor
Frequency

PQM

Sequence Component Voltage/ Current
THD Voltage/ Current
Unbalance Voltage/ Current
Harmonic 2-31st (Odd/Even)
Voltage
Current
Sag/ Swell/ Interruption
Instantaneous
Temporary
Momentary
Sustained (Interruption)

Recording

Function Event
Digital I/O Event
System Event
Counters
Switch Open, Switch Close
Local
Remote
Manual
Sag/ Swell/ Interruption
Instantaneous
Temporary
Momentary
Sustained (Interruption)

Additional Functions

16 bit ADC
128 Sample/Cycle
Fault calculation base on fundamental harmonic
Debounce/ Chattering Filter

Modules

W8010-M0
10 Digital Input
W8010-M1
6 Digital Input
2 Digital Output
3 Voltage Input
3 Current Input
W8010-M2
6 Digital Input
2 Digital Output
W8010-M2
6 Digital Input
2 Analogue Input

HMI

240*128 Graphic Display (BW)
10 Button Keyboard
6 Led Indicator

Communication

Ethernet – DNP3.0, HMI Software
Serial RS232 – DNP3.0
Serial RS232(Front Panel) – HMI Software

Hardware

Power Supply
Battery Charger
Battery Test Circuit

Environment Condition

Operating Temperature -20 to +70 °C
Humidity < 95% RH
Altitude < 2000 m

Mechanical Parameters

W8010
Dimensions (W*L*H): 225*160*45 mm
Panel Cut-Out: 200*143 mm
W8010-M0
Dimensions (W*L*H): 53*112*58 mm
W8010-M1
Dimensions (W*L*H): 72*112*58 mm
W8010-M2
Dimensions (W*L*H): 53*112*58 mm
W8010-M3
Dimensions (W*L*H): 53*112*58 mm