W601

Remote Load Break Switch Controller

W601 is a micro computer based switch controller system, which has sectionalizer functionality and is able to be connected to pole mounted load break switches in the medium voltage electricity network.

Using the installed sensors in the switch, this unit is able to measure voltage and current parameters, calculate electrical parameters and also supports different functions such as fault detection and automatic sectionalizer.

W601 contains an extra system for power supply backup in the occurrence of power outage for operating the switch, system, modem and extra devices. W106 also has a panel for the device settings, parameters and status display, keyboard and communication module.

W601

Features

Fault Detection
Phase and ground fault detection
Auto-sectionalizing
Loss of phase, overload
Power flow detection
Loss of synchronism
Metering
Current for 3-phase, neutral
Phase voltage of both sides
Single and 3-phase kW , kVar , kVA
Power factor
Energies (4 quadrant metering)
Voltage and current unbalance
THD of voltage (both sides)
THD of current
Voltage harmonics and current harmonics up to 31st
Internal temperature
Frequency
Status Monitoring
Switch contact position
Mechanical lock
Gas pressure
Battery state
AC power
Remote control
Lock control
Outer door
Control Outputs
Switch contacts (close/open)
Battery test
Fault indicator reset
Communication
DNP3 level 2 (RS232 & LAN)
Front panel RS232 port
LED Indicator
AC power
Run
Fault
Phase difference
Load voltage
Source voltage
Gas pressure
Mechanical lock
Switch open
Switch close
Local
Lock
Other Features
DSP processor
Variable voltage output for modem
320x240 graphical LCD
Modular boards
Windows based software

Technical Specifications

Power Supply
180-240 VAC
Battery Charger
Type: 12Vx2 , 12 Ah , SLA battery
Periodically automatic battery test
Battery low and over-discharge alarm
AC Voltage Inputs
Inputs: three phase (both sides)
Accuracy: ±1%
AC Current Input
Inputs: three phase and neutral
Accuracy: ±1%
Status Input
Wetting voltage: 24 VDC
Fully optically isolated inputs
Aux. input: 3 point
Maintenance Port
Baud rate: 460800 bps
Location: front panel
Connector: EAI 232 , DB9 , Male
Setting and Configuration
Analog outputs: 11 outputs for setting
Other settings
DNP3 protocol configuration