

# 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. W601 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-sectionaling  
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 31<sup>st</sup>  
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:  $\pm 1\%$

### AC Current Input

Inputs: three phase and neutral  
Accuracy:  $\pm 1\%$

### 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

