

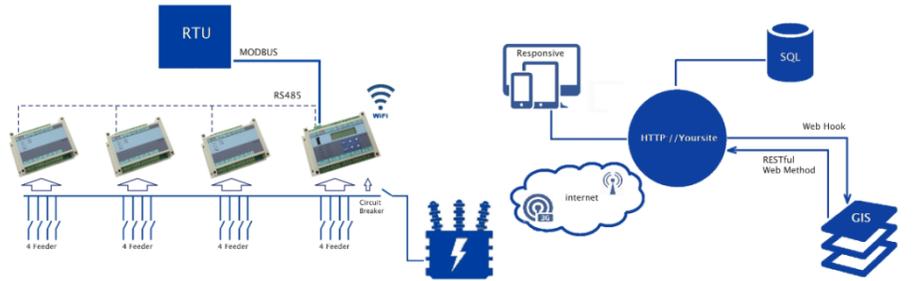
Multi-Feeder Power Analyzer (Rogowski)

W1030 is a powerful power analyzer which is able to measure and record the electrical parameters of the circuit breaker and 4 connected feeders. The numbers of feeders are expandable to 16 feeders using W1034 modules. While having the ability to measure and record voltage, current, neutral current, power factor, active, reactive and apparent powers, active and reactive energies for all the feeders, this device can measure and record 2nd to 15th voltage, current and neutral current harmonics, voltages THD and Currents THD for the circuit breaker. Also recording both the environmental temperature and transformer temperature would help to monitor and analyze the effect of harmonic loads. All the records are stored in the internal memory and transferred to the server using internet. The measured parameters which are transferred to the server by mobile networks make the charts and the data available to be monitored in order to calculate the loss reduction, load balance, load profile, PF correction and etc.

Features:

Measure, Display and Store	
Voltage*	Line Phase Average Unbalance
Current	Line Average Neutral Unbalance
Active Power	Phase Total
Reactive Power	Phase Total
Apparent Power	Phase Total
Power Factor	
Harmonic* Even, Odd	2 to 15 th Line Voltage
Total Harmonic Distortion*	2 to 15 th Line Voltage Line Current
Temperature**	Transformer Ambient
Frequency	
Current Range	Rogowski coils up to 4000A
Data Logging	
Records	1 minute to 1 hour period
Communication	
Offload stored data on USB flash disk	
Two RS485**	MODBUS protocol Internal Communication
WiFi Module	
Power Supply	
Wide Range	80-500VAC
Other Features	
Expandable to 16 feeders	
Current unbalance alarm LED	
Fault CT polarity correction	
Memory	4 GB
HMI*	2* 16 text LCD 6 Key
1000 impulse/kwh Energy pulse	
Daylight saving	
Software correction	
Standards	
Measurement	IEC62053-22, IEC62053-24
EMC	IEC61439-1, IEC62271-1
Mechanical Parameters	
Dimensions	158x87x60mm
Mounting	DIN rail
Weight	400 gr
Environmental Conditions	
Operating Temperature	-20 to 70 °C
Storage Temperature	-30 to 80 °C

* Only main Channel on W1030
** W1030
*** W1034



Data gathering and recording system

- General specification
- Gathering the transferred data from the device and recording in the SQL server database
- Display and managing the general information of each device containing name, code, address and etc. while distinguishing the station and feeder
- Applicable filtering to display the desired stations
- Display the records received for each station and it's feeders
- Export Excel files from the records of each station and it's feeders
- Export screen shots of the analyses in order to be used in the reports
- Display the profile of all parameters for each station and it's feeders
- Display the profile of max, min and average of all parameters for each station and it's feeders
- Define access level for different users
- Using Web Method and RESTful in order to receive data from the website
- Web Hook capability
- Responsive design
- Compatible with all modern web browsers
- Data analysis by the software
- Operation factor
- Load factor
- Capacitor calculation
- Unbalance calculation
- Load profile
- Peak time
- Total load of selected devices
- ...
- Capability to make alarms by the website
- Station blackout alarm
- Fuse burning alarm
- Overload alarm
- Current harmonic alarm
- Transformer overheat alarm
- Simcard credit balance alarm
- Customize alarms

