



Multi-Feeder Power Analyzer (CT/split core CT)

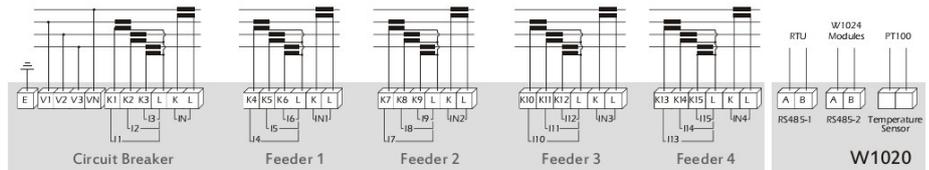
W1020 is a powerful power analyzer which is able to measure and record the electrical parameters of the circuit breaker and 4 connected feeders. The numbers of feeders are expandable to 16 feeders using W1024 modules. While having the ability to measure and record voltage, current, neutral current, power 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:

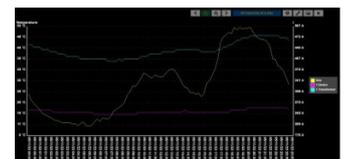
Measure, Display and Store	
Voltage*	Line
	Phase
	Average
	Unbalance
Current	Line
	Average
	Neutral
	Unbalance
Active Power	Phase
	Total
Reactive Power	Phase
	Total
Apparent Power	Phase
	Total
Power Factor	Phase
	Total
Harmonic* Even, Odd	2 to 15 th Line Voltage
	2 to 15 th Line Voltage
	2 to 15 th Line Voltage
Total Harmonic Distortion*	Line Voltage (W1020 only)
	Line Current (W1020 only)
Temperature**	Transformer
	Ambient
Frequency	

Current Ranges	
CT up to 5000A	
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	145x90x72mm
Mounting	DIN rail
Weight	565 gr ** 455 gr ***
Environmental Conditions	
Operating Temperature	-20 to 70 °C
Storage Temperature	-30 to 80 °C



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	



* Only main Channel on W1030
** W1020
*** W1024