**Electrical network analysis system for quality control of your facilities**

The device measures all the electrical parameters in terms of energy quality according to standards IEC 61000-4-30 Class A and IEC 62586-2 Class A : harmonic numbers, dips /cut-offs, overvoltages, transients, wave form capture and verification of signal conformity according to the templates defined in standard EN 50160.

The qualimeter has the following main features:

* 4 voltage and 5 current channels
* Voltage inputs for direct connection until 1000 Vac phase-phase or through Voltage Transformer
* Current inputs availability for standard CT 1A/5A
* Voltage characteristics monitoring according to IEC/EN 61000-4-30:2015 Ed. 3 Class A
* Parameter recording for statistical analysis according to EN 50160
* Harmonic and interharmonics measurement
* Voltage Flicker measurement
* Main Signalling Voltage detection and recording
* EN50160 Event detection and recording (sag, swell, outage)
* Current Overload detection and recording
* Transient detection and recording ( down to 20 microseconds)
* High sampling frequency of 50 kHz
* Three-phase 3 and 4 wire or single-phase operating mode
* Integrated web server for complete device management
* Two Ethernet and one RS485 ports for easy communication
* One front USB host port for memory stick
* RTC synchronization for accurate time information by NTP or internal GPS module
* 16 Gb internal memory for data recording
* Data recorded in standard PQDIF and CSV formats
* Panel mount 192x144 DIN size
* High resolution TFT screen with capacitive touch
* 4x Isolated digital inputs, 4x digital outputs and 4x 4-20mA analog outputs
* Integrated backup rechargeable battery
* Multi measurement of currents, voltages, powers, power factors, harmonics and energies
* Communication protocols: HTTP, HTTPS, FTP, SFTP, NTP, Modbus TCP

This device made for power quality analysis will able to detect and record events such as:

* Voltage events recording (sags, swells, interruptions) with storage of 1/2c RMS values and waveforms
* Rapid voltage changes characteristics
* Fast current variation recording with storage of RMS values and waveforms
* Data LOG recording function of MIN/AVG/MAX values of selectable parameters and programmable rate time
* Functional event LOG for the device operating status
* Digital input status change LOG
* Automatic data upload to FTP server in case of events
* Scheduled data upload to FTP server

The qualimeter conforms to the following standards and certifications:

* Active and apparent energy: IEC 62053-22 class 0.5s
* Reactive energy: IEC 62053-24 class 1
* Harmonics and interharmonics measurement method: IEC 61000-4-7
* Flicker measurement method: IEC 61000-4-15 and EN 6100-4-15
* Supply quality measurement method: IEC 61000-4-30 Class A
* Power quality measurement requirements: IEC 62586-2 Class A
* Characteristics of the voltage supplied by public distribution networks: EN50160.

The product is similar to Socomec Diris Q800 network analyzer.