

iMETER 8 – ADVANCED POWER QUALITY ANALYSER



POWER QUALITY FEATURES :

- True RMS @ 1024 samples/cycle sampling
- IEC 62053-22 Class 0.2S kWh metering with Multi-Tariff TOU
- IEC 61000-4-30 Ed. 3.1 Class A Certified
- IEC 61000-4-15, IEC 61000-4-7 Compliance
- EN50160 & IEEE Std 519-2022 Reporting
- IEC 61850 Support for Substation Automation and Smart Grid
- 7" High-Resolution Color Dot-Matrix Display @ 800x480
- 8GB Log Memory
- Dual Ethernet and 2xRS-485
- Modbus RTU/TCP, HTTPS, SNTP, SMTPS
- WF Recording in COMTRADE format

POWER QUALITY METERING

- PQ Parameters as per IEC 61000-4-30 Ed. 3.1 Class A Certified
- Power Frequency
- Magnitude of the Supply Voltage and Current Flicker
- Supply Voltage Dips, Swells and Interruptions
- Supply Voltage Unbalance and Current Unbalance
- Mains Signaling Voltage on the Supply Voltage
- Rapid Voltage Changes
- Measurement of Over Deviation and Under Deviation Parameters
- Harmonics and Interharmonics for Voltage and Current
- 2kHz to 150kHz Conducted Emission Measurements

DATA AND EVENT RECORDERS

- Non-Volatile Log Memory
- 8GB on-board non-volatile Log Memory

DATA RECORDER (DR)

- 8 DR Logs capable of recording up to 64 parameters each
- Recording Interval from 1s to 40 days
- Programmable sources such as RMS/Fundamental/
Harmonic/Interharmonic Measurements, Demands,
Deviations, MSV, Unbalances and Flicker
- Configurable Recording Offset
- Support FIFO or Stop-When-Full recording modes

IEEE Std 519-2022 Report

365 Daily Reports for statistical evaluations on Voltage and Current Harmonics based on 99th percentile very short time (3s values) 52 Weekly Reports for statistical evaluations on Voltage Harmonics (95th percentile) and Current Harmonics (95th an 99th percentile) short time (10 min) values Configurable Report Mode, PCC Voltage, Max. Short Circuit Current, etc.

HARMONIC AND INTERHARMONIC MEASUREMENTS

- K-Factor for Current, Crest Factor for Current and Voltage
- V and I THD, TOHD, TEHD, TIHD, TOIHD, TEIHD and TH (RMS)
- V and I Individual Harmonics (%HD and RMS) from 2nd to 63rd
- V and I Individual Interharmonics (%IHD and RMS) from 1st to 63rd
- Total Harmonic P, Q, S and PF
- Harmonic P, Q, S and PF from 2nd to 63rd in RMS
- Harmonic Phase Angle from 2nd to 63rd #
- U and I DC Components
- Total Harmonic kWh, kvarh Import/Export/Net/Total
- Total Harmonic kWh, kvarh Import/Export from 2nd to 63rd

STATISTICAL DATA RECORDER (SDR)

- 16 SDR Logs of maximum 64 parameters each
- Recording of the Max., Min., Avg. and CP95 for
- Real-time Measurements including U, I, P, Q, S,
PF, Freq., Power, PF, Harmonics, Deviations and Unbalances
- Recording interval from 0 minute to 60 minutes
- 30 days @ 1-minute, 300 days @ 10-minute, 450-day @ 15-minute
- PQDIF file format, downloadable from the on-board FTP Server
- Support FIFO or Stop-When-Full mode

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