

PORTABLE & PERMANENT POWER QUALITY MEASURING INSTRUMENTS



KRYKARD Power Quality Analyser



KRYKARD ALM 36

Salient Features

- 4 Voltage & 4 Current channels
- Alarms - Capture up to 16,362 alarms
- Inrush - (capture I & V waveforms)
- Transients - Capture up to 210 transients
- Flicker - PLT (Long Term)
- Memory - 2GB Memory Expandable upto 32GB
- 12 Screen shots can be captured
- Phasor diagram with Phase Angles

Measurements:

- AC/DC Voltage & AC/DC Current
- W, VA, VAR, VAD, Wh, VAh, VARh, Dh
- Peak V & I values and Peak Factor
- Frequency - 50 & 60 Hz
- FHL, K factor, PST, PF, Cos ϕ , Tan ϕ , DPF
- THDf on V & I, Harmonics up to 50th order



KRYKARD ALM 31

Salient features:

- 3 Voltage & 3 Current channels (Neutral Current)
- 12 Screen shots can be captured
- Phasor diagram with Phase Angles

Measurements:

- AC/DC Voltage & AC/DC Current
- W, VA, VAR, VAD, Wh, VAh, VARh, Dh
- Peak V & I values and Peak Factor
- Frequency - 50 & 60 Hz
- FHL, K factor, PST, PF, Cos ϕ , Tan ϕ , DPF
- THDf on V & I, Harmonics up to 50th order



KRYKARD ALM 20

Salient Features

- 3 Voltage & 3 Current Channels
- Bluetooth, Ethernet and USB
- Removable SD card
- Self-powered, no dependence on battery
- Data logging and data retrieval possible directly from SD card

Measurements

- Voltage, Current
- Frequency - 50, 60 & 400 Hz
- kW, kVA, kVAR(with & without Harmonics)
- Wh, VAh, VARh, PF, Cos ϕ , Tan ϕ
- Short-term Flicker, Crest Factor, K-Factor
- THDf on V & I, Harmonics up to 50th order

CLASS - A Ed - 3 Power Quality Analyser



HDPQ VISA PLUS



HDPQ GUIDE PLUS



HDPQ XPLORER PLUS

High Speed Transient Capture

HDPQ SP VISA/GUIDE/XPLORER with IP 65 casing for outdoor Applications



Salient Features

- Class - A certified Ed-3 as per IEC 61000-4-30
- 0.2s Class accuracy
- 4 isolated Voltage & Current channels
- 4 AC/DC Current Channels with Flex probe
- Multitasking - Log simultaneously RMS, Harmonics, Transient and other PQ events
- AC/DC, 512 samples/cycle
- Dran-View 7 software for Power Quality Analysis & Reports
- Harmonics – IEC 61000-4-7, IEEE 519 (2014)
- 4GB Internal Flash Memory. External Storage Via USB
- IEEE 1459 Advanced Power measurements

Measurements (Depeds upon model)

- AC/DC Voltage & AC/DC Current
- For Intense PQ & Energy Monitoring
- KW, kVA, kVAR, VAD, Wh, VAh, VARh, Dh
- Peak V & I values and Peak Factor
- Inrush with 130 cycles in VISA, 10k Cycle in GUIDE & XPLORER
- 100 to 10,000 event cycles, pre / post trigger buffer
- High Speed Digitized Transients 1 μ s / 40 μ s
- Unbalance - positive and negative sequence
- Flicker-short term & Long Term, FHL, K factor
- Harmonics & Inter harmonics upto 127th & 63rd order for Voltage & Current respectively



PQ3K



PQ5K

Salient features

- Class A Ed-3 Certified Power Quality Meter
- Panel mounted (144mm x 144mm) PQ & Energy monitoring
- IEC 61000-4-30 Class A Edition 3 compliant
- PQDIF, Modbus, IEC 61850, Profinet communications
- State & condition based monitoring & alarming
- Temperature & fault current monitoring
- PQView DE Software for Power Quality Analyses and report
- Voltage & Current Odd harmonics up to 50th
- Flicker Analysis

- Instantaneous values of Voltages, Currents, kW, kVAR, kVA, Frequency, load factor, kW_{ind}, DVAr, cos ϕ , tan ϕ
- V_{THD} Voltages & Currents, TDD Currents
- V & I Symmetrical components & unbalance
- PQ Events - Sags, Swells, Voltage interruptions, Rapid Voltage Change (RVC), Over / Under Voltage deviation
- Energy meters high & low tariff, pre-defined & user-defined base quantities
- Mean-values, predefined power quantities & user-defined base quantities

CLASS A Permanent Power Quality Monitor



HDPQ DN

Salient features:

- 4 models available to meet any circuit connection need
- IEC 61000-4-30 Class A Edition 3 compliant
- 4 Channel AC/DC Voltage
- 4 Channel AC/DC Current
- Negative transients
- Notching, Intermittent switching & Harmonics
- DNP3 and Modbus communications
- For new monitoring systems
- Add to existing 61000 system
- Direct replacement for the 61000 (61STD) – Reuse all mounting hardware, pods, etc.
- Compatible with PQView DE



KRYKARD DiGi 820

Salient features:

- Class A Complied Power Quality Measurement
- Class 0.2s Accuracy
- 4 Voltage & 4 Current Channels
- Full Real-time Data Measurement
- Harmonic and flicker analysis
- Failure Diagnose Location, 20µs for transient disturbance record

Measurements

- Voltage, Current, Frequency
- PF, kW, kVA, kVA_r – phase wise and total
- kWh, kVA_rh, kVAh
- Demand & Max Demand – kW, kVA, kVA_r, I
- THD – V & I, Individual harmonics upto 63rd order
- Harmonic Energy (2nd to 31st)
- K factor, Crest Factor, Flicker

DATAVIEW for KRYKARD Power Quality Analyser ALM xx



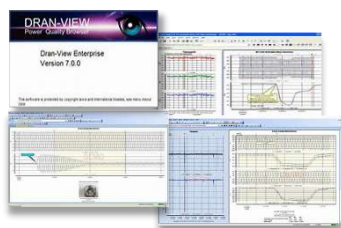
Features

- Recovery of the measurement data
- Stored in the instrument
- Backup of measurement files
- Opening of backup files
- Processing and creation of reports
- Export into Excel spreadsheets
- Export in .pdf format
- Database management

The measurements taken can also be processed by the multi-product expert processing software

- It automatically recognizes the instrument when it is hooked up to the PC and opens the corresponding menu.
- It includes numerous predefined report templates for quick report generation in accordance with the applicable standards.

DRAN-VIEW for DRANETZ Power Quality Analyser



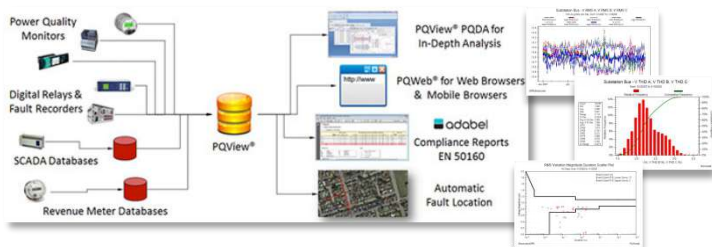
Visualization: Three pan Window; AnswerModules; Tailored Presentation option

Analysis: Events catergorized, Stored and grouped; Evaluate Data from Various formats; Harmonics tools

Reporting: Automated reporting; Design Custom Reports, Edit Reports

Advantages: Setup installation errors can be corrected even after the data has been recorded, to Adjust time stamps, Invert Current probes, Change scaling factors, Change connection type

PQ-VIEW for DRANETZ Power Quality Monitor



Specialized Functionality

- Radial and network fault location
- Voltage sag and interruption contract management
- Power quality event log correlation with SCADA operation logs
- Load forecasting
- Wind generation feasibility and assessment

- **PQView Fault Analysis Modules** automatically combine electric power systems recordings with data from SCADA, GIS & network topology which Reduces Time to Locate Faults, to Classify Fault Types & Fault Duration.
- **PQView Report Writing Modules** prepares industry standard reports or custom reports. These reports can automatically document compliance with local regulations and standards.
- **PQView Answer Modules** automatically assess the health & direction of capacitor switching, record reactive power changes & the direction of voltage sags.
- **PQView** combines powerful features in a user-friendly interface. Measurements can be stored in either Microsoft Access or Microsoft SQL Server.
- **Applications:** Power Quality Data Manager (PQDM), Power Quality Data Analyzer (PQDA), and PQWeb.

AC CT Specifications (Suitable for ALMXX Series)

450mm AMPFLEX



800mm AMPFLEX



MN 93A



PAC 93



| Specifications | Ampflex A193 450 mm | Ampflex A193 800 mm | MN 93A | PAC 93 |
|-----------------|--|------------------------|----------------------------------|----------------------------------|
| Dia(mm) | 140 | 250 | 20 | 39 |
| Maximum Current | 10,000Aac | 10,000Aac | Dual range 5Aac & 100Aac | 1000Aac/ 1300Adc |
| Range | 100mA to 10,000Aac (measures from 10A when used on ALM10) | | 5mA to 5Aac / 100mA to 100Aac | 1A to 1,000Aac/ 1A to 1300Adc |
| Accuracy | ±2% | ±2% | ±0.7% | ±3% |
| Safety | CAT IV 600V / CAT III 1000V | | CAT IV 300V / CAT III 600V | |

DC CT Specifications (Above Model Suitable for ALMXX Series)

C193



J93



E3N



| Specifications | C193 | J93 | E3N |
|-----------------|----------------|-------------------------------------|---------------------------|
| Dia(mm) | 52 | 72 | 11.8 |
| Maximum Current | 10,00Aac | 3,500Aac/ 5000Adc | 100Aac/dc |
| Range | 1A to 1,000Aac | 50A to 3,500Aac/ 50A to 5,000Adc | 10mA to 100mAac/dc |
| Accuracy | ±0.2% | ±1% | ±1% |
| Safety | CAT IV 600V | CAT IV 300V/ CAT III 600V | CAT IV 300V/ CAT III 600V |

AC / DC CT Specifications (Suitable for Dranetz)



| Specifications | Flexible CT | | Clamp CT | |
|----------------|----------------|-------------|-----------|------------------|
| Dia(mm) | 450 | 450 | 15 | 52 |
| Range | 0.5 A to 3000A | 6A to 6000A | 1A to 10A | 15A to 1500AC/DC |
| Accuracy | ± 1% | ± 1% | ± 1.5% | ± 1% |



Atandra Energy Private Limited

No. 5, Kumaran Street, Pazhavanthangal, Chennai - 600 114, India.
Tel: +91 44 4278 0700 | 4278 0600
www.atandra.in | energy@atandra.in

Ahmedabad | Belgaum | Bengaluru | Bhubaneswar | Chennai | Coimbatore | Chandigarh | Erode | Faridabad
Guntur | Guwahati | Hosur | Hyderabad | Indore | Jaipur | Kochi | Kolhapur | Kolkata | Ajmer | Lucknow
Ludhiana | Madurai | Mumbai | Nagpur | New Delhi | Patna | Pune | Raipur | Rajkot | Tirupur | Surat | Visakhapatnam

OUR DEALER

KRYKARD is a registered trademark owned by Atandra Energy Private Limited
DRANETZ is manufactured by Dranetz Technology, USA.
Revision: Sep 2020. Specifications are subject to change without prior notice.

