DRANETZ™
THE STANDARD FOR ENERGY & POWER MEASUREMENT

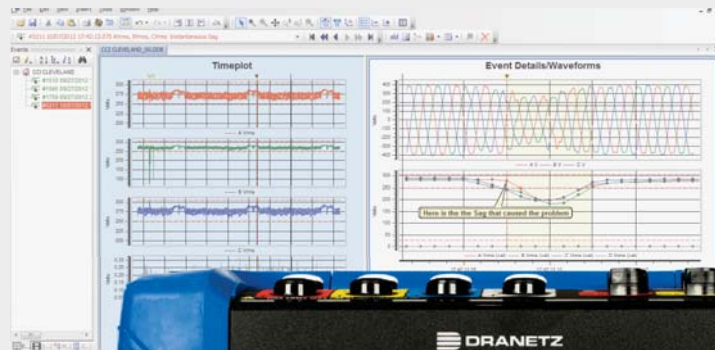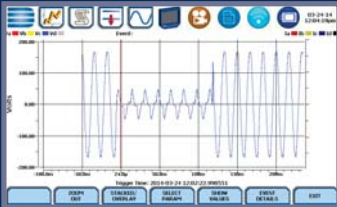# POWER QUALITY MONITORING

TRUSTWORTHY POWER MONITORING

DRANETZ HDPQ® PLUS SERIES

DRANETZ HDPQ® SP SERIES

HDPQ PLUS SERIES

- XPLORER PLUS

50 YEARS OF TRUSTWORTHY MEASUREMENT

PQ Surveys
IEC 61000-4-30 Class A Ed 3

Transient Recording
Peak, Waveshape Changes

Harmonics Recording
IEEE 519-2014, IEC 61000-4-7

Compliance Reporting
IEEE 519-2014, EN 50160

DRANETZ HDPQ® FAMILY

- 4 MODELS TO MEET EVERY BUDGET AND APPLICATION
- EACH MODEL IS AVAILABLE IN 2 ENCLOSURES

DRANETZ HDPQ® PLUS SERIES
PORTABLE, 7" DISPLAY

XPLORER
PLUS

APPLICATIONS (model dependant)

- PQ Surveys
- Energy/Load Surveys & Studies
- Data Logging
- Substation Monitoring
- DER/Alternative Energy
- Capacitor Testing
- Motor Testing
- Advanced Load Distortion and Imbalance
- Fault Recording/In-Rush
- UPS, Generator Testing/Commissioning
- Transformer/Inrush Testing
- TVSS, Protection Device Testing
- Aircraft/Aviation, Naval

V & I CONNECTIONS

- 1000V CAT III (600V CAT IV)
- AC/DC Differential Voltage & Current Inputs
- DRANFLEX CT's powered by the instrument
- IEC 61000-4-30 Class A Ed. 3 Compliant

DRANETZ HDPQ® PLUS SERIES
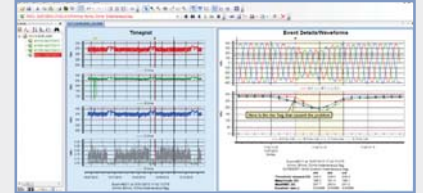Portable with 7" Display + Colored Cables

SAFE REMOTE ACCESSIBILITY VIA DRAN-VIEW® 7, APPS AND VNC

- Set it and forget it! Hands off for safety.
- Full remote access using ethernet. Wi-Fi (model dependent) and Bluetooth
- Remote control, data analysis & reporting using Dran-View® 7
- Remote control using Android and Apple VNC Apps.

DRAN-VIEW 7 REMOTE CONTROL, ANALYSIS & REPORTING

- Windows based power quality, demand & energy analysis
- Powerful, yet easy to use
- 64 bit software for speed
- Fully compatible with the Dranetz HDPQ series and most legacy products
- Two versions are available

  - **ENTERPRISE** for the advanced user (included with most other HDPQ packages)
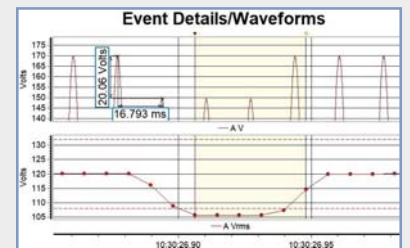- Automatic (or manual) internet updates

REAL TIME REMOTE CONTROL OF ALL HDPQ SERIES INSTRUMENTS

- Remotely control the user interface – as if you were in front of the meter (SP included)
- Remote real time metering
- Remote control of all settings
- Remotely download recorded data

POWERFUL ANALYTICAL TOOLS

- View all recorded instrument data
- Trends, events, waveforms
- Zooming, panning, scrolling and other tools
- Event filtering & sorting
- Rescue kit – correct timestamps, scaling, connections

REPORTING

- Automatic or manual report generation
- Customizable report contents with YOUR logo
- Compliance reporting – IEEE 519-2014, EN 50160 and more
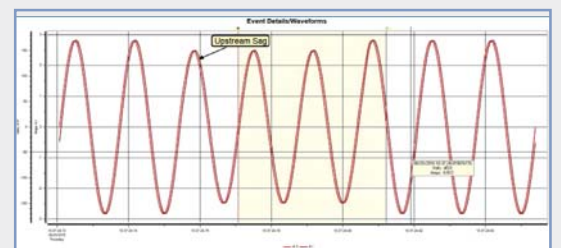- Integrated RTF editor

DRAN-VIEW® 7 ENTERPRISE ALSO INCLUDES

- Snapshot/Bookmark tool
- Drag & drop charts – customizable appearance
- Insert pictures & photos into charts
- Annotations – add comments to points in charts
- Multisite capabilities – overlay data from different sites
- Math tool – create formulas for custom parameters
- Harmonic generation tool – compute harmonics from any recorded waveforms

DRANETZ HDPQ FAMILY MODEL SELECTOR

	Xplorer Plus Xplorer SP	Xplorer 400 Plus Xplorer 400 SP
ENCLOSURE		
Portable with 7" Touch Screen	HDPQ Plus Portable	HDPQ Plus Portable
SP IP65 without display	HDPQ SP	HDPQ SP
POWER SUPPLY		
AC Mains Power - 90-264, 50/60Hz	HDPQ Plus Portable	HDPQ Plus Portable
Phase Powered - 600VAC, 500VDC	HDPQ SP	HDPQ SP
MEASUREMENTS & MONITORING		
Power Quality - Sag, Swell, Interruption	○	○
IEC61000-4-30 Class A Ed. 3 Compliant	○	○
W, VA, VAR, PF, Demand Energy	○	○
Peak & Waveshape Transient Capture	○	○
Harmonics - IEC61000-4-7, IEEE519-2014	○	○
Flicker - IEC61000-4-15, IEEE1453	○	○
Pre/Fault/Post Cycles	10,000	10,000
Pre-Programmed Monitoring Modes	9	9
AnswerModules - Motor Health, Sag, PF Cap	○	○
High Speed Transient Capture	○	○
400 HZ Measurements		○
COMMUNICATIONS		
Ethernet	○	○
Wi-Fi	○	○
USB	○	○
Dran-View 7 Full Remote Control & Data Downloading	○	○
Apple & Android VNC Apps - Full Remote Control	○	○
GPS Time Synch (optional)	○	○
APPLICATIONS		
PQ Surveys	○	○
Energy/Load Surveys & Studies	○	○
Data Logging	○	○
Substation Monitoring	○	○
DER/Alternative Energy	○	○
Capacitor Testing	○	○
Motor Testing	○	○
Advanced Load Distortion and Imbalance	○	○
Fault Recording / In-Rush	○	○
UPS, Generator Testing/Commissioning	○	○
Transformer/Inrush testing	○	○
TVSS, Protection Device Testing	○	○
Aircraft/Aviation, Naval		○

TECHNICAL DATA

MEASURED PARAMETERS

(4) Differential Voltage: 512 s/c, 16 bit resolution
   0-1000Vrms, AC/DC, ±0.1 % reading, <40V ±0.5%FS
   IEC 61000-4-30 Class A: 60-1000Vrms, ±0.1 % of Udin, range of 10%-150% of Udin
   Transients: 0-1414Vpk, ±0.2 % of Udin
   Transients - High Speed: 1MHz (Xplorer/400), 10-2000 Vpk, +/- 10% of reading, +/- 0.5% FS

(4) Current: 512 s/c, 16 bit resolution
   Range probe dep., AC/DC, +/- 0.1% reading +/- 0.05% FS

FREQUENCY:
16-25Hz, 42.5-69Hz, +/- 0.01Hz

CALCULATED PARAMETERS

POWER/ENERGY - 1 SECOND SAMPLING
Real Power (W) - P: meets 0.2S requirements, range probe dep.
Apparent Power (VA) - S: meets 0.2S requirements, range probe dep.
Reactive Power (var) - Q: meets 0.2S requirements, range probe dep.
Power Factor (W/VA) -"true" -1 to 0 to +1
Displacement PF -1 to 0 to +1
Demand (in W): meets 0.2S requirements, range probe dep.
Energy (in Wh): meets 0.2S requirements, range probe dep.

DISTORTION - 200MS, 3 SEC, 10 MIN WINDOWS
Vthd: 0-100%, +/- 5% for V>=10% Vnom,
V Ind Harm: DC, 2-127, +/- 5% for V>=10% Vnom
Ithd: 0-100%, +/- 5% for I>=10% Inom,
I Ind Harm: DC, 2-63, +/- 5% for I>=10% Inom

MISC.
Pst - 10 minutes: 0.2-10, +/- 0.05 @ Pst=1
Plt - 2 hours: 0.2-10, +/- 0.05 @ Pst=1

EASE OF USE FEATURES

Automatic Setups
Pre-programmed monitoring modes
Dashboards - PQ, Demand & Energy
Simultaneous PQ, Demand & Energy Monitoring
Mini Report

STANDARDS COMPLIANCE

POWER QUALITY
IEC 61000-4-30 Class A Edition 3 Compliant
IEEE 1159: 2009
POWER
IEEE 1459: 2000

STANDARDS COMPLIANCE (CONTINUED)

HARMONICS
IEC 61000-4-7 Class 1: Edition 2 (2008)
IEEE 519: 2014
VOLTAGE FLICKER
IEC 61000-4-15: Edition 2 (2010)
IEEE 1453: 2011
COMPLIANCE/TESTING
EN 50160: 2010

GENERAL SPECIFICATIONS

DRANETZ HDPQ PLUS SERIES
   Size: (10"w x 8"h x 2.75"d), (25.4cm x 20.3cm x 7.00cm)
   Weight: 4.2lbs, 2kg
   Operating temperature: 0 to 50 deg C (32 to 122 deg F)
   Storage temperature: -20 to 55 deg C (-4 to 131 deg F)
   Humidity: 10-90% non condensing
   Run time on full charge: 3 hrs Visa/Guide, 2.5hrs Xplorer/400, 3 hours charge time
   AC Power: 90-264(max) 50/60Hz
   Display: 7" WVGA color graphic, Icon based touch LCD, LED Backlit

DRANETZ HDPQ SP SERIES- IP65 ENCLOSURE
   Size: (11"w x 6.5"h x 2.5"d), (27.9cm x 16.5cm x 6.4cm)
   Weight: 3.2lbs, 1.45kg
   Operating temperature: -10 to 50 deg C (14 to 122 deg F)
   Storage temperature: -40 to 85 deg C (-40 to 185 deg F)
   Humidity: 10-90% non condensing
   30 minutes run time on full charge, 3 hours charge time
   AC /DC Power: 90-600V AC / 500 DC Max CAT IV, 50/60Hz 30W Max
Clock accuracy and resolution
   Internal: +/- 1 sec/day at 25deg C
   NTP: +/-10 msec
   GPS: +/-1 msec
Memory size: 4GB
Languages: English, German, Spanish, French, Italian, Swedish, Finnish, Polish, Chinese (traditional and simplified), Thai, Korean

COMMUNICATIONS

Ethernet, 802.11 b/g/n Wi-Fi (not available in Visa Plus/SP)
USB
Bluetooth via USB adapter (optional)
VNC remote control
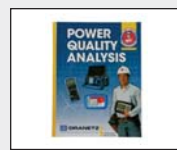Android® & Apple® VNC App

COMMON ACCESSORIES

FLEX CT'S

CLAMP CT'S

ENCLOSURES

MAGNETIC MOUNT

BOOKS

Q04-RevA