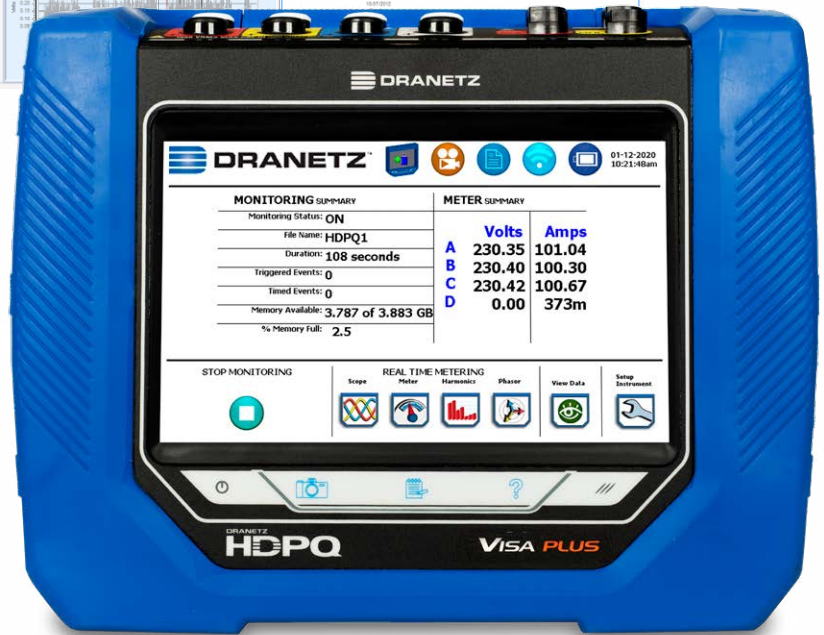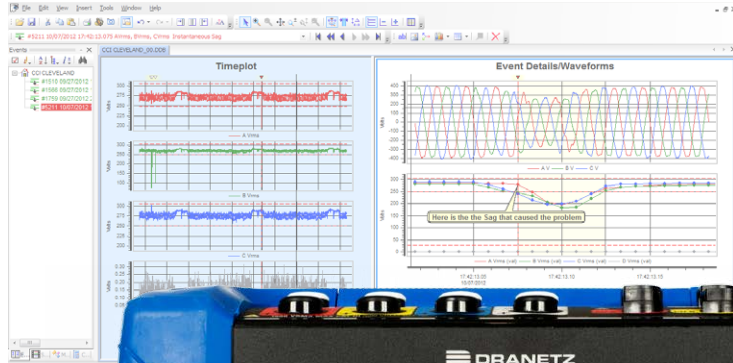**DRANETZ**
GMC-INSTRUMENTS GROU

POWER QUALITY MONITORING
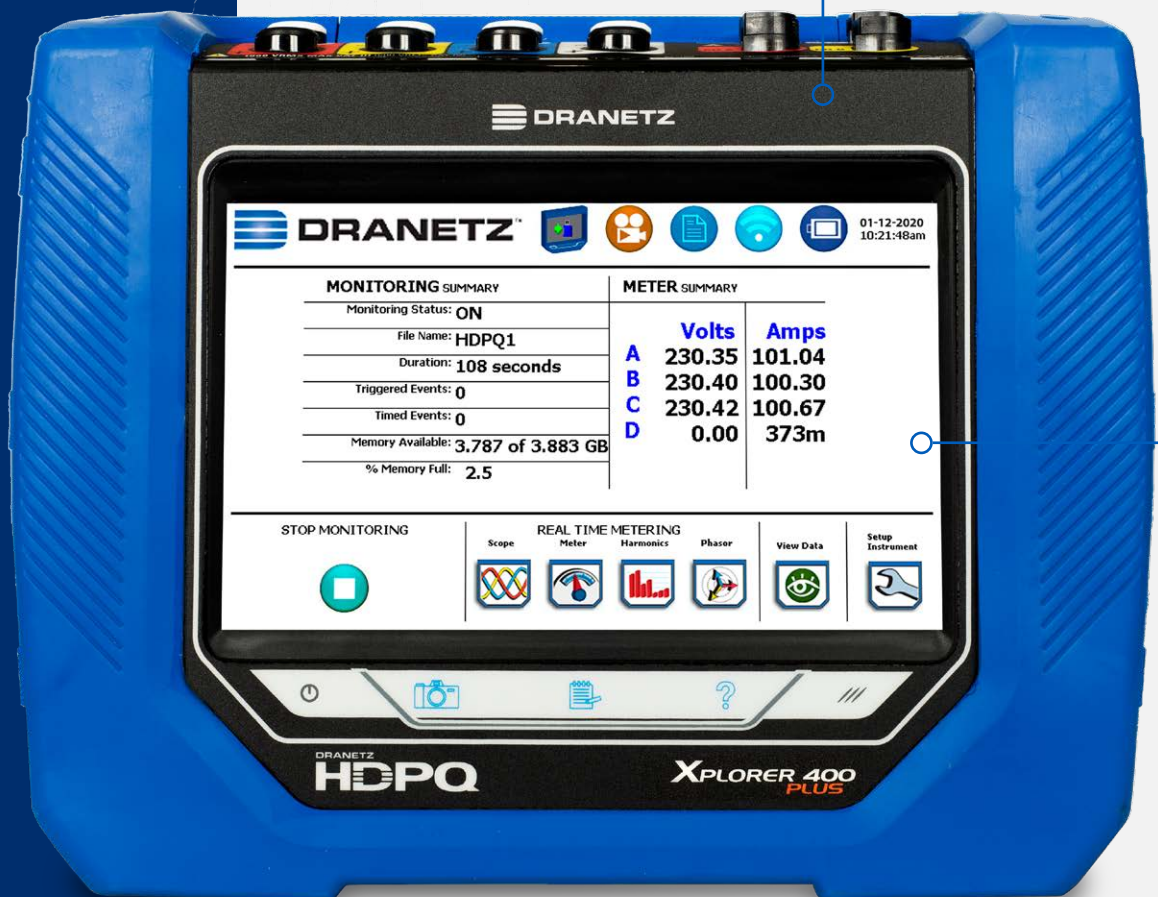
TRUSTWORTHY POWER MONITORING

DRANETZ HDPQ® PLUS SERIES

HDPQ PLUS SERIES

VISA PLUS ▪ GUIDE PLUS ▪ XPLORER PLUS ▪ XPLORER 400 PLUS

Portable Geräte für umfangreiche Netzqualitäts-, Leistungs- und Energiemessungen im Anwendungsbereich von 1000 V CAT III, 600 V CAT IV

DRANETZ HDPQ® FAMILY

• 4 MODELS TO MEET EVERY BUDGET AND APPLICATION

DRANETZ HDPQ® PLUS SERIES
PORTABLE, 7" DISPLAY

XPLORER 400 **PLUS**
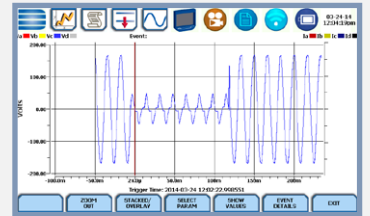
XPLORER **PLUS**
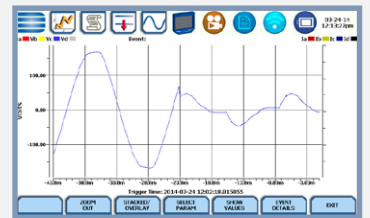
VISA PLUS

GUIDE 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
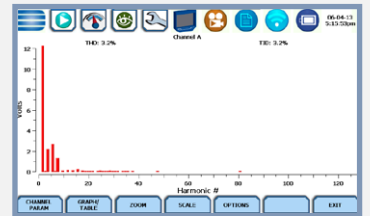- TVSS, Protection Device Testing
- Aircraft/Aviation, Naval

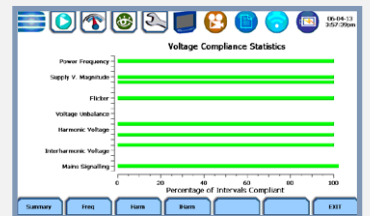## 50 YEARS OF TRUSTWORTHY MEASUREMENT

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

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 optional Bluetooth *
- Remote control, data analysis & reporting using Dran-View® 7
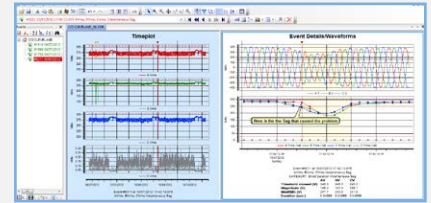- Remote control using Android and Apple VNC Apps.

* Note: The WiFi and Bluetooth functions are not available in Europe!

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
  - **PRO** for the everyday user (Free)
  - **ENTERPRISE** for the advanced user (included with Guide, Xplorer, and Xplorer 400)
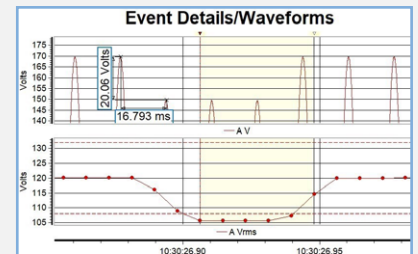- Automatic (or manual) internet updates

REAL TIME REMOTE CONTROL OF ALL HDPQ SERIES INSTRUMENTS

- Remotely control the user interface – as if you were in front of the meter
- 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
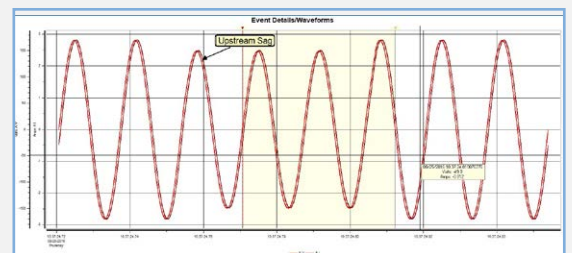- Integrated RTF editor

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

Plus

	Visa Plus	Guide Plus	Xplorer Plus	Xplorer 400
ENCLOSURE				
Portable with 7" Touch Screen	○	○	○	○
POWER SUPPLY				
AC Mains Power - 90-264, 50/60Hz	○	○	○	○
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	100	10,000	10,000	10,000
Pre-Programmed Monitoring Modes	7	9	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				○

* Note: The WiFi and Bluetooth functions are not available in Europe!

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
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
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) *
USB
Bluetooth via USB adapter (optional) *
VNC remote control
Android® & Apple® VNC App

* Note: The WiFi and Bluetooth functions are not available in Europe!

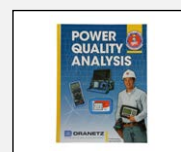# COMMON ACCESSORIES

FLEX CT'S

CLAMP CT'S

ENCLOSURES

MAGNETIC MOUNT

BOOKS

CAMILLE BAUER
GMC-INSTRUMENTS GROUP

DRANETZ®
GMC-INSTRUMENTS GROUP