DRANETZ®
GMC-INSTRUMENTS GROUP

Dranetz HDPQ-Xplorer Plus

NEW Dranetz HDPQ® Xplorer *Plus* – Power Quality, Demand/Energy Analyzer

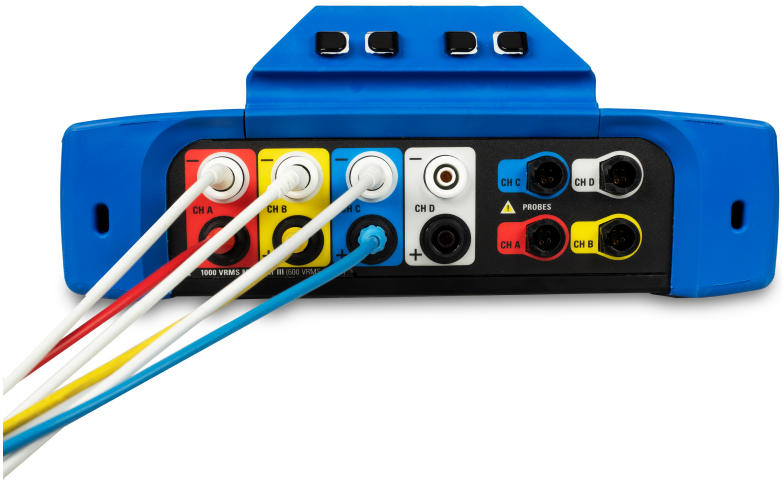
Simply the best power quality monitor available – Don't miss an event!

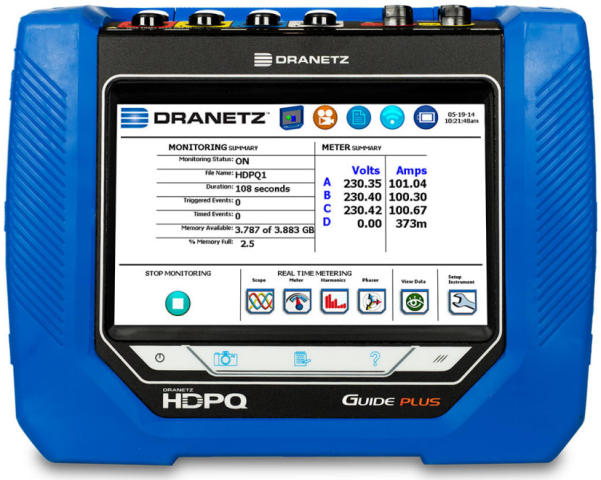
- Detects & records sags/dips, swells, interruptions, transients, harmonics, flicker, RVC and more – *Meets & Exceeds Industry Standards*
- ***High Speed Transient Capture*** – *Don't Miss a PQ Event*
- ***IEC 61000-4-30 Class A Edition 3*** PQ compliant (certificate) – *Reliable Measurements from a Reputable Manufacturer*
- Power Quality, demand & energy analysis – *Complete Power Monitoring Surveys*
- Measures, records and triggers on power parameters such as V, I, W, VA, VAR, PF, demand, energy & more
- 7″ color, touch LCD display
- Colored Cables & Connector Panel – *Safety, Convenience & Ease Of Use*
- Dran-View 7 Software – *Powerful Data Analysis, Reporting & Remote Control*
- Ethernet & Wireless Communications for Remote Control & Data Downloading – *Be Safe & Productive*
- Tests 50/60Hz and 16/25Hz
- Also available in an IP65 enclosure with phase power – See the Dranetz HDPQ Xplorer SP
- 3 year factory warranty
- Made in the USA in our ISO 9001:2015 certified factory

The Dranetz HDPQ® Xplorer Plus (portable) power quality analyzer represents the top of the line in the Dranetz HDPQ Plus family of products. It is a true hand-held portable instrument with a built in 7″, tablet-like touch LCD display and is simply the best PQ monitor available from Dranetz, or any other manufacturer! The Dranetz HDPQ Xplorer Plus includes all of the features of the Dranetz HDPQ Visa Plus and Guide Plus power quality instruments, but adds high speed transient capture capabilities to 1us so you'll never miss an event!

The Dranetz HDPQ Xplorer Plus offers best in class PQ monitoring capabilities. It measures to all current industry standards, including IEC 61000-4-30 Class A Edition 3, IEC 61000-4-7, IEEE 1159, IEEE 519:2014, IEEE 1459, and more. With its high speed transient data capture (1 microsecond/channel) capabilities, this 8-channel workhorse won't miss a PQ event. It simultaneously captures and characterizes thousands of parameters by using a range of standard and customizable operating modes. The unique measurement capabilities include the capture of low-medium-high frequency transients through peak, waveshape, rms difference and adaptive high-speed sampling, as well as power measurements to clearly characterize harmonics, non-sinusoidal, and unbalanced systems. The Intelligent AnswerModule® feature provides consultant-like analysis of sag directivity, capacitor switching transient identification/directivity and motor analysis/reporting.

The Dranetz HDPQ Xplorer Plus enables users to review data and change settings remotely from virtually any smartphone, tablet and mobile device, as well as with traditional PC and MAC laptops and desktops. Just hook up the instrument, close the cabinets to the 'safe' environment, and review data and control the instrument using either the VNC interface in our Dran-View 7 software or a free VNC client on your Smartphone or Tablet from anywhere with connectivity to the instrument.





FEATURES

Dranetz HDPQ Xplorer Plus – Precision

- High Definition PQ & Energy Monitoring – 1000Vrms, AC/DC, 512 samples/cycle
- IEC 61000-4-30 Class A Edition 3 & IEEE 1159 compliant
- High Speed Digitized Transients – 1us, 10 to 2000Vpk
- Transient triggers – V & I – waveshape triggers, high speed. Well beyond PQ standards requirements
- Eight channels, 4 voltage & 4 current
- AnswerModules – Sag directivity, PF capacitor identification, motor – automatic event categorization
- Harmonics – IEC 61000-4-7, IEEE 519:2014
- IEEE 1459 Advanced Power Measurements
- 10,000 cycle pre/post trigger buffer
- EN 50160 Ed 3

Dranetz HDPQ Xplorer Plus – Communications

- Ethernet, Wi-Fi, USB, Bluetooth (optional)
- Dran-View 7 (Windows PC) VNC full remote control & data downloading
- Apple & Android full remote control using VNC

Dranetz HDPQ Xplorer Plus – Safe & Rugged

- UL/cUL listed and CE certified
- Improved Arc Flash Safety using remote communications
- Rugged enclosure with an easy to grip, shock absorbing, non-conductive boot
- Drop tested to 6'
- Wire management in easel and hook

Dranetz HDPQ Xplorer Plus – User Interface

- 7" WVGA color touch display
- Automatic setups – PQ, Demand and Energy
- Tablet-like GUI that is icon driven, has taskbar shortcuts, and a Dashboard

Dranetz HDPQ Xplorer Plus – Productivity

- Full remote control – No need to visit the site
- PQ & Energy Dashboard's for real time alarming
- Bigger display for more productive local analysis
- AnswerModules – automatic event categorization
- Dran-View 7 power quality analysis software – Powerful analysis, reporting and remote control
- Rescue kit – Part of Dran-View 7. Correct problems with wiring, CT orientation, time errors and more
- Post processing – Part of Dran-View 7. Compute harmonics and other parameters from the waveforms recorded by the instrument

SPECIFICATIONS

Measured Parameters

(4) Differential AC/DC Voltage: 512 samples/cycle, 16 bit resolution

- 40-1000Vrms, +/- 0.1% reading. <40V +/- 0.1% reading +/- 0.05% FS
- IEC 61000-4-30 Class A Edition 3: 60-1000Vrms, ±0.1 % of Udin, range of 10% – 150% of Udin
- Transients – rms: 0-1414Vpk, ±0.2 % of Udin
- Transients – High Speed: 10-2000Vpk, +/- 10% of reading, +/- 0.5% FS

(4) AC/DC Current: 512 samples/cycle, 16 bit resolution

- Range (rms) probe dependent, +/- 0.1% reading +/- 0.05% FS
- Transients – Range probe dependent
- Transients – High Speed: Range probe dependent., 10% of Reading, +/- 0.5%FS

Frequency: 10 sec window

- 16-25Hz, 41-69Hz, +/- 0.01Hz

General Specifications

Dranetz HDPQ Xplorer Plus

- Size: (10"w x 8"h x 2.75"d), (25.4cm x 20.3cm x 7.0cm)
- Weight: 4.2lbs, 2kg
- Operating temperature: 0 to 50 deg C (32 to 122 deg F)
- NTP: +/-10 msec
- GPS: +/-1 msec

AC Adapter: 100-240Vac 50/60Hz

Battery capacity and charge time:

- Dranetz HDPQ Xplorer Plus: 2.5 hours run time on full charge, 3 hours charge time

Memory size: 4GB

Display: 7" WVGA color graphic, Icon based touch LCD, LED Backlit
Languages: English, German, Spanish, French, Italian, Swedish, Finnish, Polish, Chinese (traditional and simplified), Thai, Korean

Communications

Ethernet, 802.11 b/g/n Wireless (available without Wi-Fi as a special order)
USB On the Go
Bluetooth (optional)
VNC remote control

Ease of Use Features

Automatic Setups – Start monitoring in seconds!
Pre-programmed monitoring modes – Pre-configured setups for various applications
AnswerModules®– Sag/Dip directivity, PF Cap, Motor
Dashboards – Power Quality, Demand & Energy – Immediately know when events have been recorded
Simultaneous Power Quality, Demand & Energy monitoring
Mini-Report – Take screen snapshots that can be uploaded to your computer and included in reports, attached to emails, etc.

Standards Compliance

Power Quality
IEC 61000-4-30 Class A Edition 3
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

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>=1% Vnom,
V Ind Harm: DC, 2-127, +/- 5% for V>=1% Vnom
Ithd: 0-100%, +/- 5% for V>=1% Vnom,
I Ind Harm: DC, 2-63, +/- 5% for V>=1% Vnom