**SPECIFICATIONS**

### DRANETZ HDPQ® XPLORER SP

** Simply the Best PQ Analyzer – Don’t Miss an Event! **

Dranetz HDPQ® Xplorer SP

** IP65 Enclosure - No Display, Phase Powered**

**Dranetz HDPQ® Xplorer**

7” Color, Touch Display

### MEASURED PARAMETERS

<table>
<thead>
<tr>
<th>Differential Voltage</th>
<th>512 s/c, 16 bit resolution</th>
</tr>
</thead>
<tbody>
<tr>
<td>-0.1813Vrms, AC/DC, +/− 0.1% reading, +/− 0.05% FS</td>
<td></td>
</tr>
<tr>
<td>IEC 61000-4-10 Class A: 60-1813Vrms, +/− 0.1% of Udin, range of 10%−150% of Udin</td>
<td></td>
</tr>
<tr>
<td>Transients: 0.134Wp, +/− 0.2% of Udin</td>
<td></td>
</tr>
<tr>
<td>Transients - High Speed: IMHz, 20-200IMHz, +/− 10% of reading, +/− 0.5% FS</td>
<td></td>
</tr>
<tr>
<td>Hi Current (min): 512 s/c, 16 bit resolution</td>
<td></td>
</tr>
<tr>
<td>Range probe dep., AC/DC, +/− 0.1% reading</td>
<td></td>
</tr>
<tr>
<td>+/− 0.05% FS</td>
<td></td>
</tr>
<tr>
<td>Transients - High Speed: IMPk, Range probe dep., 10% of Reading, +/− 0.5%FS</td>
<td></td>
</tr>
</tbody>
</table>

**Frequency:**

36-240Hz, 42.3-69Hz, +/− 0.01Hz

### CALCULATED PARAMETERS

**Power/Energy - 1 Second sampling**

Real Power (W): meets 0.2S requirements, range probe dep.

Apparent Power (VA): 3 meets 0.25 requirements, range probe dep.

Reactive Power (var): 0.2 meets 0.25 requirements, range probe dep.

Power Factor (W/VA): meets 0.25 requirements, range probe dep.

**Displacement PF**:

-1 to 0 to +1

**Frequency:**

16-25Hz, 42.5-69Hz, +/− 0.01Hz

### STANDARDS COMPLIANCE (CONTINUED)

**Power Quality**


IEEE 1159: 2009

**Harmonics**

IEC 61000-4-7 Class 1: Edition 2 (2008)

IEEE 519: 2014

**Voltage Flicker**


IEEE 1453: 2011

**Compliance/Testing**

EN 50160: 2010

**Compliance/Testing** (Continued)

**Power**

IEEE 1459: 2000

**Harmonics**

IEEE 1459: 2000

**Harmonics**

IEC 61000-4-7 Class 1: Edition 2 (2008)

IEEE 519: 2014

**Voltage Flicker**


IEEE 1453: 2011

**Compliance/Testing**

EN 50160: 2010

### STANDARDS COMPLIANCE


- Power Quality
  - IEEE 1159: 2009

### EASE OF USE FEATURES

- **Automatic Setups**
- **Pre-programmed monitoring modes**
- **AnswerModules®** - Sag/Dip Directivity, PF Cap, Motor
- **Dashboards - PQ, Demand & Energy**
- **Simultaneous PQ, Demand & Energy**
- **Mini Report**

### GENERAL SPECIFICATIONS

**Dranetz HDPQ Xplorer**

- 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 05 deg C (-4 to 15 deg F)
- Humidity: 10-90% non condensing
- 2.5 hours run time on full charge, 3 hours charge time
- AC Power: 90-264vmax 50/60Hz
- Display: 7” WVGA color graphic, Icon based touch LCD, LED Backlit (Xplorer only)

**Dranetz HDPQ Xplorer SP (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: 90-600VAC / 500 DC Max CAT IV, 50/60Hz 30W Max
- Clock accuracy and resolution
  - Internal: +/- 1 sec/day at 25deg C
  - NTP: +/- 1 sec/day at 25deg C
  - GPS: +/- 1 sec/day
- 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 Wireless
- USB On The Go (OTG)
- Bluetooth via USB adapter
- VNC remote control
- Android® & Apple® App

**M11-RevA**
Applications
With its advanced PQ, Demand, and Energy capabilities, the Dranetz HDPQ® Xplorer family was designed from the ground up to be your all-in-one power monitoring tool. Whether your application requires power quality monitoring, demand/energy monitoring, or both, HDPQ Xplorer’s powerful feature set provides you the tools needed to get the job done. HDPQ Xplorer is perfect for applications such as PQ surveys, voltage and current transient studies, fault recording, inrush, motor testing, harmonic analysis, advanced distortion analysis, demand/energy/load studies, and many more.

The HDPQ Xplorer and Xplorer SP offer the exact same measurement features, but in different enclosures that can meet the needs of a wide variety of applications and work environments. The HDPQ Xplorer is a portable instrument with a built-in 7" tablet-like LCD display. The same local user interface is also available remotely on a PC, Tablet or Smartphone by using the built-in Ethernet or WiFi communications and Dran-View 7, or a free VNC remote control App. The HDPQ Xplorer SP offers the same measurement capabilities and communications, but is housed in an IP65 enclosure without the LCD display and can be powered from the circuit being measured. The IP65 enclosure of the HDPQ Xplorer SP greatly expands the applications into outdoor and harsh environments, along with those where an LCD display is undesirable.

Advanced PQ & Energy Capabilities
Dranetz products have a long-standing tradition of having state of the art PQ monitoring capabilities, and the HDPQ Xplorer family is no exception. HDPQ Xplorer meets and exceeds current versions of the most stringent industry monitoring standards, including:

- **Power Quality**: IEC 61000-4-30 Class A, IEEE 1159
- **Harmonics**: IEC 61000-4-7, IEEE 529
- **Voltage Flicker**: IEC 61000-4-15, IEEE 563 – Including Plot
- **Advanced Energy**: IEEE 1459

Capture High Speed Transients!
HDPQ Xplorer goes well beyond PQ standards by including transient capture capabilities for both voltage and current such as: high speed transients to 1 microsecond, peak sample transients, and advanced waveshape change transients that can identify changes from cycle to cycle.

Answer Modules® – Smart & Good Looking!
Only available from Dranetz, Answer Modules are algorithms that automatically identify power quality problems and their source. These diagnostic and reporting tools are based on our decades of analytical experience, benchmarking and troubleshooting work. The HDPQ Xplorer has three built-in Answer Modules:

- **Sag-Dip Directly**: Automatically identifies the source of a Sag-Dip as being upstream or downstream from the monitoring source.
- **Capacitor Switching**: Automatically identifies transients as being Power Factor correction transients.
- **Motor Analysis**: Enables the PQ parameters that are important to motor surveys, and provides a custom dashboard for results.

Easy to Use Intuitive User Interface
With their innovative packaging and 7" wide screen color touch display, the Dranetz HDPQ family of instruments are the most powerful and easiest to use power monitoring instruments available. Like your tablet computer, simply use your finger or stylus to easily navigate the intuitive, icon-based user interface.

Setting up the HDPQ Xplorer is easy with automatic setups that detect the circuit type, voltage, etc. and configure the instrument in seconds with typical industry settings. For customized setups, use the manual Wizard mode that guides you step-by-step through each setup. During monitoring, real-time measurements can be viewed in many ways, including a color-coded reporting Dashboard, and meter/scope/phasor/harmonics displays. Recorded data can be viewed over time by using the timeline and event list displays, and also by using compliance reports, such as EN 50160.

Reporting & Analysis
The Dranetz HDPQ Dashboard takes the guess work out of knowing what the instrument has recorded. The Dashboard is a color coded alarm panel with boxes that represent different event types (Sags, Swells, Transients, THD, etc.). Each box shows the real time metered values for the event type, and is color coded to indicate if events of that type have been recorded.

Dran-View® 7 is our industry leading Windows-based software program that enables power professionals to simply and quickly visualize and analyze power monitoring data. Dran-View enhances the Dranetz HDPQ Xplorer instruments with its VNC remote control, downloading, and advanced analytical capabilities. It is successfully used by thousands of customers around the world, and has become the industry leading power management software tool. Dran-View is easy to use, yet adds tremendous value and power to our Dranetz HDPQ family of instruments. Of course Dran-View can trend and data recorded by the instrument, but it also includes a built-in report writer, allows you to embed pictures, provides mathematical analysis tools, and even includes a rescue kit to help correct connection mistakes.

Don’t Miss an Event!
The Dranetz HDPQ Live VNC & Download drive or directly to your computer using a Plug-N-Play connection. Dran-View is easy to use, yet adds tremendous value and power to our Dranetz HDPQ family of instruments. Of course Dran-View can trend and data recorded by the instrument, but it also includes a built-in report writer, allows you to embed pictures, provides mathematical analysis tools, and even includes a rescue kit to help correct connection mistakes.

Safe Remote Accessibility via Dran-View® 7, Apps and VNC
DON’T RISK YOUR SAFETY! The Dranetz HDPQ® Xplorer comes with a standard Ethernet port, built-in Wireless, and USB Bluetooth communications that allow you to easily comply with today’s arc flash and other safety standards. Simply install your HDPQ® Xplorer, close the cabinet door, and use your Tablet, Smartphone, PC, or Mac computer to remotely control monitoring and review data. Fully control your instrument remotely, and see exactly what’s on the local 7” Xplorer only display by using the Dran-View® 7 or a free VNC App or Apps for PC, MAC, Android, and Apple devices. Or you can also use the Dranetz HDPQ App for Apple and Android devices to remotely view a real time Dashboard, scope mode, or remotely configure the instrument using automatic setups. For local access, there’s also a built-in USB port to copy data to a USB drive or directly to your computer using a Plug-N-Play connection.

Simply the best PQ Available - Don’t Miss An Event!