

## Dranetz HDPQ® DataNode

### Power Quality, Demand & Energy Monitoring



*The Dranetz HDPQ-DN is perfect for new systems or as an upgrade to the 61STD. Save cost by reusing your input pods and mounting hardware!*



*Easy installation - The Dranetz HDPQ-DN is available with V&I pods, screw terminals, safety/clamp CT connections and other configurations*

#### DRANETZ HDPQ® MONITORING TECHNOLOGY FOR FIXED SYSTEMS

The Dranetz HDPQ DataNode (HDPQ-DN) takes our industry leading Dranetz HDPQ monitoring and communications technology to fixed systems. Building on the Dranetz HDPQ Portable and SP instruments, the HDPQ-DN is the 3<sup>rd</sup> instrument in the Dranetz HDPQ family. The HDPQ-DN is perfect for your new system, or as a replacement for the 61000 (61STD), and is fully compatible with PQView DE (supersedes ESS) and PQView®.

#### POWERFUL MONITORING TECHNOLOGY – DO MORE WITH A DRANETZ!

The HDPQ-DN offers advanced monitoring technology and meets all of the current internationally recognized PQ monitoring standards, including IEC 61000-4-30 Class A Edition 3, IEEE 519:2014, IEEE 1453 and more.

The advanced PQ monitoring capabilities from Dranetz enables you to detect PQ problems that other instruments may miss, such as negative transients, notching, intermittent switching & harmonics, and other problems that can only be captured using our proprietary triggers. Applications include utility substation, capacitor bank evaluations, UPS/mission critical environments, medical imagery and more. Like all Dranetz HDPQ instruments, the HDPQ-DN offers a base sampling rate of 512 samples per cycle which offers the best base transient capture capability in the industry.

#### COMPLIANCE

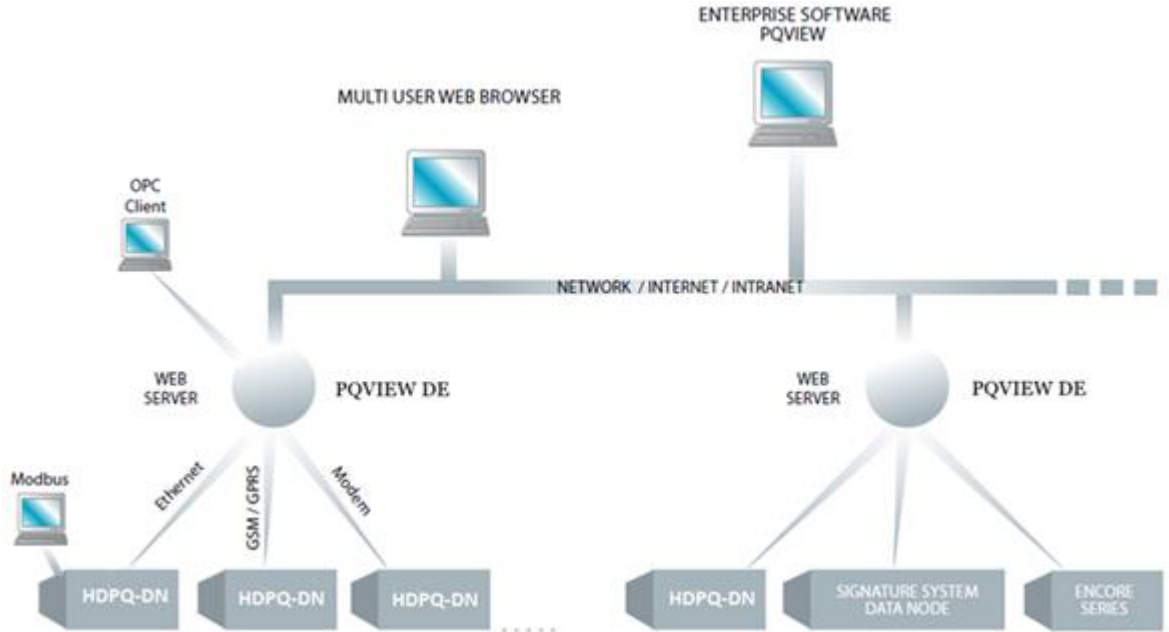
The Dranetz HDPQ-DN is perfect for permanent monitoring to determine compliance with world-wide standards, such as EN50160, NVE and your own specialized compliance requirements. Rest assured that all power quality measurements are trustworthy, are from a highly reputable manufacturer and fully meet the stringent requirements of IEC 61000-4-30 Class A Edition 3.

#### PQVIEW DE - SYSTEM SOFTWARE FOR ALL APPLICATIONS, BOTH LARGE & SMALL

System software for communications, visualization and reporting is a key component of any fixed monitoring system. The HDPQ-DN is the latest in a long line of permanently installed instruments and systems from Dranetz and is fully compatible with both our PQView® DE and PQView software.

PQView DE is the standard offering for Dranetz systems products, and is web enabled software for use with all Dranetz systems products, including the HDPQ-DN, 61000, Signature System, PQ3K/PQ5K, ES2xx meters, and others. PQView DE's modern responsive web enabled user interface can be viewed using popular web browsers on virtually any PC, laptop, tablet or cell phone. All user interactions with the monitoring system is done through the web interface that will seamlessly adjust to the size of the display being used.

PQView® is available for larger applications, or those that require enterprise software. PQView is a database software application that is designed to collect, analyze and store large quantities of power quality-related disturbance and steady-state measurement data. PQView enables users to organize data from a variety of instruments, such as power quality monitors, microprocessor relays, and digital fault recorders. It also stores site characteristics (e.g., substation, bus, feeder, latitude, longitude, etc.) and event information for voltage sags, transients, and faults (e.g., root cause code or text description). PQView brings all this information together in one relational database and provides the means to automate both the loading of new data and the generation of monitoring reports. PQView comes with a base set of reports that provide information on raw measurements, detailed statistical analyses, and executive summaries.



*Dranetz HDPQ, PQView DE and PQView architecture*

## Dranetz HDPQ-DN SPECIFICATIONS

### VOLTAGE

- Channels: (4), differential inputs, AC/DC
- Sampling: 512 samples/cycle, 16 bit A/D, synchronous sampling
- Range: 1-600 Vac/dc
- Full Scale Accuracy: 0-600V, +/-0.1% of reading, <40V +/-0.5%FS
- Frequency: 50Hz, 60Hz
- Harmonics: Per IEC 61000-4-7, individual harmonics to the 127<sup>th</sup>
- Input impedance: 10MΩ to ground

### CURRENT

- Channels: (4), differential inputs, AC/DC
- Sampling 512 samples/cycle, 16 bit A/D
- Range: Model & CT dependent. 1.5Vrms FS, 5A or 1A
- Accuracy: 0.1% reading. Does not include CT
- Harmonics: Per IEC 61000-4-7, individual harmonics to the 63<sup>rd</sup>

### DIGITAL INPUT (optional)

- Range: 0 – 200VDC
- 1KHZ sampling, Edge or level triggered,
- Logic programmed by user (active high or active low)
- Time stamped to the millisecond
- Screw terminals

### MODELS AVAILABLE

- HDPQ-DN-MVS: Screw terminals for voltage and current
- HDPQ-DN-MZP: Pod connections for use with Dranetz voltage & current pods
- HDPQ-DN-MVB: Safety connectors for voltage, Dranetz TR connectors for Flex and clamp-on CT's
- HDPQ-DN-MVSTR: Screw terminals for voltage, Dranetz TR connectors for Flex and clamp-on CT's

### MEMORY

- 4GB internal flash

### MONITORING COMPLIANCE

- IEC61000-4-30 Class A Ed. 3
- IEC61000-4-7, IEC61000-4-15
- EN50160, NVE, IEEE 1159, IEEE 1453, IEEE 519:2014

### COMMUNICATIONS

- Standard: RJ45 TCP/IP Ethernet, USB
- Optional: 3G/4G cellular
- Protocols: XML, Modbus TCP, DNP3
- Time synchronization: NTP, optional internal GPS or IRIG-B

### INSTRUMENT POWER

- 90 to 250V AC 50/60Hz
- 100 to 300V DC
- 15 minute internal UPS (user replaceable battery)

### ENCLOSURES & MOUNTING

- Enclosure: 3.5" x 11" x 8" (8.9cm x 27.9cm x 20.3cm)
- Weight: 4.5 pounds (2 kg)
- Rack mount (available)
- Weather resistant enclosure (available)
- Wall mount brackets (available)

### ENVIRONMENTAL

- Operating temperature: 0 to 55°C
- Humidity: 5 to 95%, non-condensing. Indoor use only

### SAFETY AND COMPLIANCE

- UL, CE, ISO9001