**SPECIFICATIONS**

### MEASURED PARAMETERS
- **(4) Differential Voltage**: 512 s/c, 16 bit resolution
  - 0-1000Vrms, AC/DC, ±0.1% reading, ±0.5% FS
  - IEC 61000-4-30 Class A: 60-1000Vrms, ±0.1% of Usin, range of 10%-50% of Usin
- **Current**: 0.144Amp, ±2.0% of Usin
- **Frequency**: 16-230Hz, 42.5-69Hz, ±0.01Hz

### CALCULATED PARAMETERS
- **Power/Energy** - 1 Second sampling
  - Real Power (W): meets 0.2S requirements, range probe dep.
  - Apparent Power (VA): meets 0.2S requirements, range probe dep.
  - Reactive Power (var): meets 0.2S requirements, range probe dep.
  - Power Factor (W/VA): “true” -1 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
  - THD: 0-100%, ±5% for Vo±10% Vin, 10% for Vo=Vo
  - THD Harmonics: DC, ±3%, for k=±10% Inom.
  - THD Harmonics: DC, ±3%, for k=±10% Inom.
- **Misc.**
  - PST: 10 minutes: 0.2-10, ±0.05 @ PST=1
  - PB: 2 hours: 0.2-10, ±0.05 @ PST=1

### EASE OF USE FEATURES
- **Automatic Setups**
- **AnswerModules**
  - Sag/Dip Directivity, PF Cap, Motor
- **Dashboards** - PQ, Demand & Energy
  - Simultaneous PQ, Demand & Energy
- **Mini Report**

### STANDARDS COMPLIANCE (continued)
- **Power Quality**
  - IEE 1159: 2000
- **Harmonics**
  - IEE 519: 2014
- **Voltage Flicker**
  - IEEE 1453: 2011
- **Compliance/Testing**
  - EN 50160: 2010

### GENERAL SPECIFICATIONS
- **Dranetz HDPQ Guide**
  - **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
  - **Battery life**: 3 hours run time on full charge, 3 hours charge time
  - **AC Power**: 90-264VAC 50/60Hz
  - **Display**: 7” WVGA color graphic, Icon based touch LCD, LED Backlit (Guide only)
- **Dranetz HDPQ Guide 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
  - **Battery life**: 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 Wireless
- **USB On The Go (OTG)**
- **Bluetooth via USB adapter**
- **VNC remote control**
- **Android® & Apple® App**
Applications

Whether your application requires power quality monitoring, demand-energy monitoring, or both, the powerful feature set of the Dranetz HDPQ® Guide family provides you the tools needed to get the job done. Dranetz HDPQ Guide instruments are perfect for applications such as PQ surveys, fault recording, inrush, motor testing, harmonic analysis, advanced distortion analysis, demand/energy/load studies, and much more.

The HDPQ Guide and Guide 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 Guide is a portable instrument with a built in 7" tablet-like LCD display. The same local user interface is also available remotely via a PC, Tablet or Smartphone by using the built-in Ethernet or Wi-Fi communications and DranView 7, or a free VNC remote control App. The HDPQ Guide 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 Guide 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 Dranetz HDPQ® Guide is no exception. PQ Guide meets and exceeds the state of the art PQ monitoring capabilities, and the Dranetz HDPQ family of products have a long-standing tradition of having state-of-the-art PQ monitoring capabilities, along with those where an LCD display is undesirable.

Transient Capture

The Dranetz HDPQ Guide goes well beyond the requirements of the PQ standards by including transient capture capabilities for voltage and current, as well as transient to 32 microseconds, peak sample transients, and advanced waveform change transients that can identify changes from cycle to cycle.

AnswerModules® – Smart & Good Looking!

Only available from Dranetz, AnswerModules 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 Guide has three built in AnswerModules:

- Sag Dip Directivity: 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.

Safe Remote Accessibility via Dran-View® 7 Apps and VNC

Don't risk your safety! The Dranetz HDPQ Guide 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 Guide, 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 use exactly what's on the local 7" display by using a DranView® 7 or a free VNC program or App for PC, MAC, Apple, and Android devices. Or, you can also use the Dranetz HDPQ® Guide SP offers the same great value, but in a hardened IP65 enclosure and is powered from the phase!