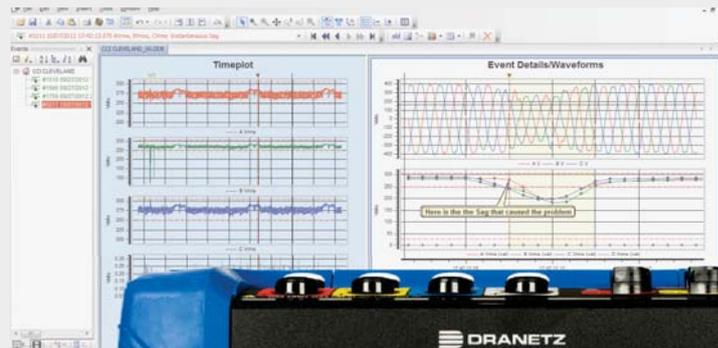


# POWER QUALITY MONITORING

TRUSTWORTHY  
POWER MONITORING



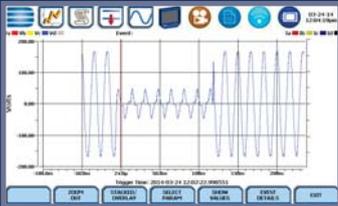
DRANETZ HDPQ® PLUS SERIES

DRANETZ HDPQ® SP SERIES

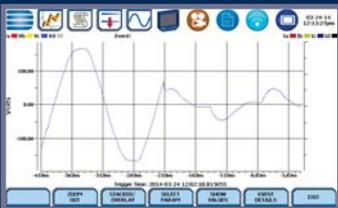
## HDPQ PLUS SERIES

VISA PLUS

## 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

## DRANETZ HDPQ® FAMILY

### DRANETZ HDPQ® PLUS SERIES PORTABLE, 7" DISPLAY



**VISA 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
- UPS, Generator Testing/Commissioning
- Transformer/Inrush Testing



**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



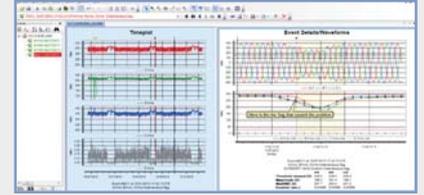
**SAFE REMOTE ACCESSIBILITY VIA DRAN-VIEW® 7, APPS AND VNC**

- Set it and forget it! Hands off for safety.
- Full remote access using ethernet.
- Remote control, data analysis & reporting using Dran-View® 7



## 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 (included with most HDPQ Visa packages)
- Automatic (or manual) internet updates



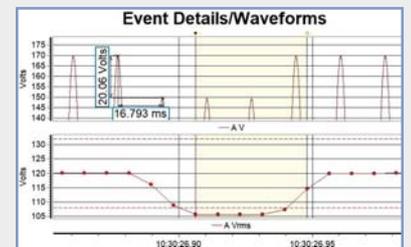
## REAL TIME REMOTE CONTROL OF ALL HDPQ SERIES INSTRUMENTS

- Remotely control the user interface – as if you were in front of the meter (SP included)
- 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

Event Details/Waveforms											
Date:	Interval:			Statistc:			Compliance:				
3/14/2020	Daily			Very Short (95th)			Fail				
Nominal voltage:	Nominal current:			Max Demand Current:			Max ShortCir Current:				
230.00	10.33			10.00			100.00				
Harm:	AV	AI	BV	BI	CV	CI	DV	DI			
THD	39.403		39.399		39.404						
TDD	0.023	0.023	0.023	0.033	0.030	0.030					
2	0.008	0.007	0.010	0.008	0.011	0.007					
3	18.082	0.007	18.080	0.008	18.084	0.008					
4	0.006	0.006	0.008	0.005	0.005	0.005					
5	18.088	0.008	18.088	0.006	18.080	0.008					
6	0.005	0.005	0.007	0.005	0.005	0.005					
7	18.088	0.008	18.088	0.005	18.088	0.008					
8	0.006	0.005	0.007	0.005	0.008	0.008					
9	18.088	0.008	18.089	0.008	18.088	0.008					
10	0.008	0.005	0.010	0.005	0.010	0.008					
11	0.007	0.008	0.008	0.008	0.008	0.008					
12	0.007	0.008	0.009	0.008	0.008	0.008					
13	0.007	0.008	0.008	0.008	0.010	0.008					
14	0.007	0.008	0.008	0.008	0.008	0.008					
15	0.007	0.008	0.007	0.008	0.010	0.008					

# TECHNICAL DATA

## MEASURED PARAMETERS

(4) Differential Voltage: 512 s/c, 16 bit resolution  
0-1000Vrms, AC/DC,  $\pm 0.1\%$  reading,  $<40V \pm 0.5\%FS$   
IEC 61000-4-30 Class A: 60-1000Vrms,  $\pm 0.1\%$  of  $U_{din}$ , range of 10%-150% of  $U_{din}$   
Transients: 0-1414Vpk,  $\pm 0.2\%$  of  $U_{din}$ , 32  $\mu s$

(4) Current: 512 s/c, 16 bit resolution  
Range probe dep., AC/DC,  $\pm 0.1\%$  reading  $\pm 0.05\% FS$

### FREQUENCY:

16-25Hz, 42.5-69Hz,  $\pm 0.01Hz$

## 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%,  $\pm 5\%$  for  $V \geq 10\% V_{nom}$ ,  
V Ind Harm: DC, 2-127,  $\pm 5\%$  for  $V \geq 10\% V_{nom}$   
Ithd: 0-100%,  $\pm 5\%$  for  $I \geq 10\% I_{nom}$ ,  
I Ind Harm: DC, 2-63,  $\pm 5\%$  for  $I \geq 10\% I_{nom}$

### MISC.

Pst - 10 minutes: 0.2-10,  $\pm 0.05$  @ Pst=1  
Plt - 2 hours: 0.2-10,  $\pm 0.05$  @ 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

## STANDARDS COMPLIANCE (CONTINUED)

### 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

### DRANETZ HDPQ SP SERIES- 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: 90-600V AC / 500 DC Max CAT IV, 50/60Hz 30W Max  
Clock accuracy and resolution  
Internal:  $\pm 1$  sec/day at 25deg C  
NTP:  $\pm 10$  msec  
GPS:  $\pm 1$  msec

Memory size: 4GB

Languages: English, German, Spanish, French, Italian, Swedish, Finnish, Polish, Chinese (traditional and simplified), Thai, Korean

## COMMUNICATIONS

Ethernet, 802.11  
USB  
VNC remote control

# COMMON ACCESSORIES



FLEX CT'S



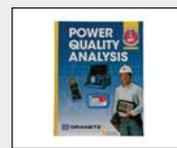
CLAMP CT'S



ENCLOSURES



MAGNETIC MOUNT



BOOKS

