



POWER QUALITY **MONITORING**

TRUSTWORTHY POWER MONITORING



DRANETZ HDPQ° SP SERIES

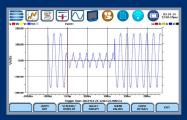
HDPQ PLUS SERIES

VISA PLUS • GUIDE PLUS • XPLORER PLUS • XPLORER 400 PLUS

HDPQ SP SERIES

VISA SP • GUIDE SP • XPLORER SP • XPLORER 400 SP

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

• 4 MODELS TO MEET EVERY BUDGET AND APPLICATION • EACH MODEL IS AVAILABLE IN 2 ENCLOSURES

		122
Names State 2M In the party 201 Name (200 party) Name (20	Velts Areps A 230.35 101.04 B 230.40 100.30 C 230.42 100.67 D 0.00 373es	
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DRANETZ HDPQ° PLUS SERIES

DRANETZ HDPQ[®] SP SERIES SP-IP65, PHASE POWERED



XPLORER 400 PLUS

XPLORER 400 SP

XPLORER PLUS

VISA PLUS

GUIDE PLUS

GUIDE SP

VISA SP

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/In-Rush
- UPS, Generator Testing/Commissioning
- Transformer/Inrush Testing
- TVSS, Protection Device Testing
- Aircraft/Aviation, Naval

5



- Set it and forget it! Hands off for safety.
- Full remote access using ethernet. Wi-Fi (model dependent) and Bluetooth
- Remote control, data analysis & reporting using Dran-View® 7
- Remote control using Android and Apple VNC Apps.



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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)
 - ENTERPRISE for the advanced user (included with most other HDPQ 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

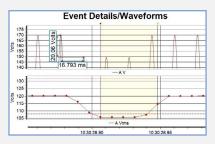
- · View all recorded instrument data
- Trends, events, waveforms
- Zooming, panning, scrolling and other tools
- Event filtering & sorting
- Rescue kit correct timestamps, scaling, connections

REPORTING

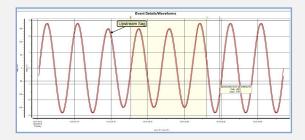
- Automatic or manual report generation
- Customizable report contents with YOUR logo
- Compliance reporting IEEE 519-2014, EN 50160 and more
- Integrated RTF editor

DRAN-VIEW® 7 ENTERPRISE ALSO INCLUDES

- Snapshot/Bookmark tool
- Drag & drop charts customizable appearance
- · Insert pictures & photos into charts
- Annotations add comments to points in charts
- Multisite capabilities overlay data from different sites
- Math tool create formulas for custom parameters
- · Harmonic generation tool compute harmonics from any recorded waveforms



Date:		Interv	Interval:		Statistic: Very Short (99th) Max.Demand Current: 10.00		Compliance: Fail Max.ShortCir Current 100.00	
	/14/2020 Daily							
Nominal voltage: 230.00			Nominal current: 10.33					
		10.33						
Harm.	AV	Al	BV	BI	CV	CI	DV	DI
THD	39.403		39.399		39.404			
TDD		0.023		0.033		0.030		
2	0.008	0.007	0.010	0.008		0.007		
3	16.092	0.007	16.090	0.006		0.008		3
4	0.006	0.006	0.008	0.005		0.005		
5	16.089	0.008	16.088	0.005		0.008		1
6	0.006	0.005	0.007	0.005	0.008	0.008		
7	16.088	0.008	16.088	0.005		0.008		3
8	0.008	0.005	0.007	0.005		0.008		
9	16.088	0.005	16.087	0.006		0.008		3
10	0.009	0.005	0.010	0.005		0.006		
11	0.007	0.006	0.008	0.006		0.006	9	3
12	0.007	0.008	0.009	0.005		0.008		
13	0.007	0.008	0.009	0.005		0.008		3
14	0.007	0.005	0.006	0.008		0.008	1	
15	0.007	0.005	0.007	0.005	0.010	0.008		



DRANETZ HDPQ FAMILY MODEL SELECTOR

	Visa Plus Visa SP	Guide Plus Guide SP	Xplorer Plus Xplorer SP	Xplorer 400 Plus Xplorer 400 SP
ENCLOSURE				
Portable with 7" Touch Screen	HDPQ Plus Portable	HDPQ Plus Portable	HDPQ Plus Portable	HDPQ Plus Portable
SP IP65 without display	HDPQ SP	HDPQ SP	HDPQ SP	HDPQ SP
POWER SUPPLY				
AC Mains Power - 90-264, 50/60Hz	HDPQ Plus Portable	HDPQ Plus Portable	HDPQ Plus Portable	HDPQ Plus Portable
Phase Powered - 600VAC, 500VDC	HDPQ SP	HDPQ SP	HDPQ SP	HDPQ SP
MEASUREMENTS & MONITORING				
Power Quality - Sag, Swell, Interruption	0	0	0	0
IEC61000-4-30 Class A Ed. 3 Compliant	0	0	0	0
W, VA, VAR, PF, Demand Energy	0	0	0	0
Peak & Waveshape Transient Capture	0	0	0	0
Harmonics - IEC61000-4-7, IEEE519-2014	0	0	0	0
Flicker - IEC61000-4-15, IEEE1453	0	0	0	0
Pre/Fault/Post Cycles	100	10,000	10,000	10,000
Pre-Programmed Monitoring Modes	7	9	9	9
AnswerModules - Motor Health, Sag, PF Cap		0	0	0
High Speed Transient Capture			0	0
400 HZ Measurements				0
COMMUNICATIONS				
Ethernet	0	0	0	0
Wi-Fi		0	0	0
USB	0	0	0	0
Dran-View 7 Full Remote Control & Data Downloading	0	0	0	0
Apple & Android VNC Apps - Full Remote Control	0	0	0	0
GPS Time Synch (optional)	О	0	0	0
APPLICATIONS				
PQ Surveys	0	0	0	0
Energy/Load Surveys & Studies	О	0	0	0
Data Logging	0	0	О	0
Substation Monitoring	Ο	0	Ο	0
DER/Alternative Energy	О	0	Ο	0
Capacitor Testing	0	0	0	0
Motor Testing		0	Ο	0
Advanced Load Distortion and Imbalance		0	Ο	0
Fault Recording / In-Rush		0	Ο	0
UPS, Generator Testing/Commissioning		0	О	0
Transformer/Inrush testing		0	О	О
TVSS, Protection Device Testing			О	0
Aircraft/Aviation, Naval				0

TECHNICAL DATA

MEASURED PARAMETERS

(4) Differential Voltage: 512 s/c, 16 bit resolution 0-1000Vrms, AC/DC, ±0.1 % reading, <40V ±0.5%FS IEC 61000, 4, 20 Class A: 60, 1000Vrms, 10, 106 of Uldia, ra

IEC 61000-4-30 Class A: 60-1000Vrms, ± 0.1 % of Udin, range of 10%-150% of Udin

Transients: 0-1414Vpk, ±0.2 % of Udin

Transients - High Speed: 1MHz (Xplorer/400), 10-2000 Vpk, +/- 10% of reading, +/- 0.5% FS

(4) Current: 512 s/c, 16 bit resolution

Range probe dep., AC/DC, +/- 0.1% reading +/- 0.05% FS FREQUENCY:

16-25Hz, 42.5-69Hz, +/- 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%, +/- 5% for V>=10% Vnom, V Ind Harm: DC, 2-127, +/- 5% for V>=10% Vnom Ithd: 0-100%, +/- 5% for I>=10% Inom, I Ind Harm: DC, 2-63, +/- 5% for I>=10% Inom

MISC.

Pst - 10 minutes: 0.2-10, +/- 0.05 @ Pst=1 Plt - 2 hours: 0.2-10, +/- 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

IEEE 1459: 2000 STANDARDS COMPLIANCE (CONTINUED)

COMMON ACCESSORIES

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)

Storage temperature: -40 to 85 o

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: +/- 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 Wi-Fi (not available in Visa Plus/SP) USB Bluetooth via USB adapter (optional) VNC remote control Android* & Apple* VNC App



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