

# Specifications for the Dranetz PowerXplorer PX5

## Specifications

### Measured Parameters

- (4) differential inputs, 1-600 Vrms, AC/DC, 0.1% rdg, 256 samples/cycle, 16 bit ADC
- (4) inputs with CTs 0.1-6000 Arms CT-dependent, AC/DC, 0.1%rdg + CTs, 256 samples/cycle, 16 bit ADC
- 1 MHz High Speed Sampling, 14 bit ADC, 1%FS
- Frequency Range, 10m Hz resolution, 45-65 Hz or 380-420 Hz
- Phase Lock Loop - Generator tracking
- Phase Lock Loop - Standard PQ mode

### Monitoring/Compliance

- IEEE 1159
- IEC 61000-4-30 Class A
- EN50160 Quality of Supply
- Current Inrush / Energization
- Voltage Fault recording
- Long Term Monitoring
- Continuous Data Logging w/min/max/avg

### Power Quality Triggers

- Cycle-by-cycle analysis
- 256 samples/cycle; 1/2 cycle RMS steps (1)
- L-L, L-N, N-G RMS Variations: Sags/swells/interruptions)
- RMS Recordings V&I (32 pre-fault, 10K post-fault cycles)
- Waveshape Recordings (2/6/2 cycles)
- Low and Medium Frequent Transients - V&I
- High Frequency Transients - V&I, 3% FS trigger (1)
- Harmonics Summary Parameters
- Cross trigger V & I channels
- RMS Event Characterization (IEEE or IEC)
- Transient Event Characterization (1)

### Distortion/Power/Energy

- W, VA, VAR, TPF, DPF, Demand, Energy, etc.
- IEEE 1459 Parameters of distorted and unbalanced
- Harmonics/Interharmonics per IEC 1000-4-7
- THD/Harmonic Spectrum (V,I,W) to 63rd
- TID /Interharmonic Spectrum (V,I) to 63rd

- Flicker per IEC 1000-4-15 (Pst,Plt,Sliding Plt)
- Crest Factor, K Factor, Transformer Derating Factor, Telephone Interference Factor
- Unbalance (max. rms deviation) & sequencing components
- 5 User Spec Harmonics or Signaling Frequency
- Vector/Arithmetic/Coincident Parameters

**Available Languages**

- English, French, Italian, German, Spanish, Swedish

**General Specifications**

- Size (HxWxD): 12" x 2.5" x 8" (30cm x 6.4cm x 20.3 cm)
- Weight: 4.2 pounds (1.9 kg)
- Operating Temperature: 0 -50 (32 to 122 )
- Storage Temperature: -20 to 55 (4 to 131 F)
- Humidity: 10 to 90% non-condensing
- System Time Clock-Crystal controlled-1 second resolution
- Charger /Battery Eliminator: 90-264 VAC 47-63 Hz
- Display: LCD color touch screen
- Memory options (must have one): 32M-128M removable compact flashcard

**Options and Accessories for the PowerXplorer PX5**

Options & Accessories

**Training CD** Training CD for PowerGuide 4400 and PowerXplorer (PX5)

**Flash Card Memory** Flash Card Memory provides removable memory of all saved data. The new flash card memory gives you greater capacity for data storage. Available in sizes from 32Mb - 128Mb

**SCC 4300** Soft carrying case. Rugged cordura nylon carry case holds PP4300, voltage probes, CTs, and manual. Ideal for field service, industrial applications.



**LPC 4300** Portable lockable case. Rugged, weatherproof case (NEMA 4x) for harsh environments. Includes multi-conductor voltage measurement and AC power cables. Ideal for utility substation measurements, outdoor jobs. **(CTIC-LPC Cable, for current, is optional)**



**RSC 4300** Reusable shipping container. Protects the analyzer during repeated shipping. Complies with NSTA Project 1A vibration and drop specification. Includes space for accessories. Ideal for 4300s that are shared between offices or carried in trucks and car trunks.



**TR-2500** Current probe, 10A-500A RMS 40Hz-5kHz (not for transient capture) Max conductor size 50mm



**TR-2510** Current probe, 1A-10A RMS 40Hz-5kHz (not for transient capture) Max conductor size 15mm



**TR-2520** Current probe, 300A - 3000A RMS 40Hz-5kHz (not for transient capture)  
Max conductor size 72mm



**TR-2021** Current probe, 1A-30A RMS, 48Hz-10kHz, Max conductor size 20mm  
Requires cable adaptor CA4300



**TR-2019B** Current probe, 50A-300A RMS 30Hz-5kHz; Max conductor size 52mm  
Requires cable adaptor CA4300



**TR-2022** Current probe, 10A - 1000A RMS 30Hz-5kHz; Max conductor size 54mm  
Requires cable adaptor CA4300



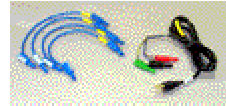
**TR-2023** Current probe, 200A - 3000A RMS 30Hz-5kHz; Max conductor size 65mm  
Requires cable adaptor CA4300



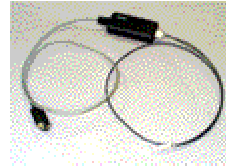
**Flex Probes** Call factory for sizes and ranges.  
Requires adapter cable CA4300LEM



**VCP4300** Voltage cable accessory pack  
Voltage measurement cable for direct connection to standard 120VAC single phase outlet. Includes four (4) jumper cables for various three-phase connections.



**COM-RS232** Isolated communications module RS232 serial interface between PP4300 and PC or printer.



**COM-OUA** USB-FiberOptic Adapter

**COM-OEA** LAN-FiberOptic Adapter