

## Specifications for the PowerXplorer PX5-400

### Specifications

#### 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

#### 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

#### Power Quality Triggers

- Cycle-by-cycle analysis
- 256 samples/cycle; 1/2 cycle RMS steps
- 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
- Harmonics Summary Parameters
- Cross trigger V & I channels
- RMS Event Characterization (IEEE or IEC)
- Transient Event Characterization

#### Available Languages

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

#### 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 at 50/60Hz; 16th at 400Hz
- TID /Interharmonic Spectrum (V,I) to 63rd at 50/60Hz; 16th at 400Hz
- 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

#### Monitoring/Compliance

- MIL-STD-1399 (US DoD)
  - 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
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