

3100 PQNode[®] /EPRI PQPager[®]

Low-Cost Power Quality Monitor "Speaks Your Language"



The PQPager gathers and stores data, then automatically pages you when a disturbance occurs. Use the voice-mail-like interface to hear the details from any phone.

- Provides service-entrance power quality information to help you manage and retain key accounts
- Retrieve information as easily as retrieving your voice mail messages
- Measures single or three-phase voltage sags/swells, transients, interruptions and more
- Plugs into any touch tone phone line
- PQPager can call you when an event occurs
- Available in a compact, lockable NEMA-4X enclosure

The 3100 PQNode/EPRI PQPager was designed to help you proactively manage and retain your key accounts. It provides service-entrance power quality information to utility marketing executives, utility engineers and customers. Developed by Dranetz-BMI, EPRI and ten major U.S. electric utilities, the PQPager's combination of measurement capabilities, information management features, and low cost make it the ideal front-line component of your power quality program.

The PQPager connects directly to any standard power voltage between 120 Vrms and 600 Vrms nominal. It has a lockable NEMA-4X enclosure that can be installed next to a revenue meter. Its internal rechargeable nicad battery supports operation for up to 15 minutes during power interruptions with a maximum of five minutes each for three consecutive events. Just plug the PQPager into a standard touch tone telephone line and it will immediately begin reporting useful power quality statistics. It even has a patented feature that lets it conveniently share the phone line with another user, such as a security guard.

When your PQPager detects a power quality disturbance, it stores all the critical information, including the event signature. It can then initiate up to four phone calls contacting numeric/alphanumeric pager systems and/or a PC running PES software.

Retrieving the information is as simple as retrieving your voice mail messages. Your customer can also access the recorded data, without the ability to make changes to any settings and/or erase any data.

You can set up your PQPager to call when an event occurs. With a numeric pager, you'll be told the phone number of the PQPager that has new information. With an alphanumeric pager, you'll see the site name, exactly what went wrong, and how long it lasted. There's no master-station bottleneck. The PQPager can talk directly to your paging service provider.

Using the IEEE 1159 standard, the PQPager measures single or three-phase voltage sags, swells, interruptions, transients, waveform snapshots, RMS strip charts and more. By using our patented compression algorithm, the length of time that the RMS strip charts cover is unlimited. It even monitors the status of two alarm contact inputs that you can connect to security alarms, critical process equipment, water level meters, or thermostats so you get immediate notification of out-of-tolerance conditions.

If you need more data from your PQPager, our Windows-based Power Evaluation Software (PES) allows more sophisticated setups, performs automatic downloads, handles PQPager "Call Backs" to PES, and displays event signatures and strip charts for an unlimited number of PQPagers and other PQNodes.



Specifications

MEASURED PARAMETERS	3100 PQNode
Power Types Supported	■
Single phase	
Split single phase	
3 phase 4 wire wye	
3 phase delta	
Voltage Inputs	■
Three independent input channels A,B and C	
Voltage Ranges	■
A,B and C channels	
5-600 Vrms, ±1000 Vpk, 50/60 Hz	
Sampling Rates	■
32 samples/cycle	
Measurement Accuracy	■
± 1.0% of reading ±0.5 least significant digit	
Power Consumption	■
5 VA nominal, 60 VA maximum	
Surge Protection	■
6000 Vpk	
Internal UPS	■
15 minute maximum, three years for clock/calendar and data	
Frequency	■
Fundamental range: 50/60 Hz	
TRIGGERS	■
Phase A, B and C for transients, swell, sag, and restored after interruptions	
Alarm	■
Two dry-contact inputs	
Impedance	
1 MΩ to ground, <50 pF to ground	
Connections	
Screw Terminal	

GENERAL SPECIFICATIONS

Communications
Synthesized Speech
Internal Modem: 2400 bps
User Interface
Telephone: Touch tone/synthesized speech activated by user
Software: Power Evaluation Software (PES)
Dimensions
(H x W x D): 10" x 8" x 4" (25 cm x 20 cm x 10 cm)
Weight: 12 pounds (5 kg)
Environmental
Enclosure: NEMA-4X lockable enclosure
Operating: -40° F to 122° F (-40° C to 50° C)
Humidity: 0 to 95% non-condensing
Power Requirements
110 V - 240 V or 220 V - 480 V (user selected) 50-60 Hz
Data Storage
Internal Flash ROM 256 kB

OPTIONS

Windows PC Software
PES 7000 View and analyze recorded data on a PC.
Runs under Windows 3.1, Windows 95 and Windows NT
Communications
PGR Telephone-Voice/Pager Option
PES Computer Interface Option



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