



POWER QUALITY ANALYZER CONFIGURATION

Effective:
01/13/11

Revision:
A

Configuring a SATEC Power Analyzer

Overview

These are instructions for configuring the SATEC PM296 Power Quality Analyzer to individual MISER points so they can be monitored for voltage and current.

Details

With the SATEC PAS software installed, configure it to communicate through a serial port.

- 1) Open the PAS software and select *Configuration* from the *Tools* menu. On the *Instrument Setup* tab in the *Communication* area select Serial Port / Modem Site.
- 2) On the Connection tab click Protocol and select DNP3, the rest of default parameters for the Protocol Setup will typically be fine.

The following are the setup parameters:

Port COM1	
Protocol	DNP3
Interface	RS-485
Device Address	1
Baud Rate	9600
Data Format	8N
CTS	N/A
RTS	N/A
Response Delay, ms	N/A
Character Timeout, ms	N/A

- 3) From the main window toolbar, select Monitor>On-line.
- 4) From the main window toolbar, select MeterSetup>Protocol Setup. On the DNP Options Setup tab set the following parameters (these should be the defaults):

Binary Inputs (BI)	
Number of BI to generate events	0
Default Binary Input Object	Single-bit
Binary Input Change Event Object	With Time

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Analog Inputs (AI)	
Number of AI to generate events	0
Analog Input Object	16-bit -Flag
Analog Input Change Event Object	16-bit -Time
Frozen Analog Input Object	N/A
Frozen Analog Change Event Object	N/A

Binary Counters (BC)	
Number of BC to generate events	0
Binary Counters Object	16-bit -Flag
Binary Counters Change Event Object	16-bit -Time
Frozen Binary Counters Object	16-bit -Flag
Frozen Counter Change Event Object	N/A

DNP General Options	
16-bit AI Scaling	Enabled
16-bit BC Scaling	N/A
Re-mapping Event Points	Enabled
SBO Timeout, s	10
Time Sync Period, s	86400
Multi Fragment Interval, ms	50

- 5) Select the DNP Class 0 Point Assignment tab, set the following parameters:

DNP Class 0 Points			
No.	Object [Object:Variation]	Start Point	Number of Points
1	AI 30:03 (32-bit-F)	0	6
2	AI 30:04 (16-bit-F)	15	4
3	AI 30:03 (32-bit-F)	19	3
4	AI 30:04 (16-bit-F)	23	1
5	BC 20:05 (32-bit-F)	0	3

Click [Send] to apply the new setup to the device.

- 6) Configure all meters the same adjusting for their address and acronym.

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