

8PRN

Disturbance Recorder



IEC 61850

A compact solution featuring up to 384 samples per cycle with Ethernet accessibility

Main Features

Up to 16 analog channels (selectable: current/voltage)

- Current channels up to 25 A (125 A under fault)
- Voltage channels up to 360 V
- No need for shunts or external devices
- Sampling rate: from 10s/c to 384 s/c
- Internal non-volatile memory
- Records stored in COMTRADE format
- 16 or 32 programmable digital inputs
- 8 programmable digital outputs
- LEDs to show comms. ports activity
- 4 general purpose LEDs
- Enclosure: 19" rack x 4U or 6U

Instantaneous Metering Values

Better than 0.1% metering accuracy at full scale

- Full scale value selectable
- Current and Voltages
- Power (S, P and Q)
- Frequency, $\cos \varphi$
- Sequence components
- Harmonics
- Phasors of every phase

Versatile triggering and recording modes

Triggering modes

- Analog channels:
 - Threshold Exceeded
 - Gradient
 - Specific harmonic content
 - Total harmonic content
- Calculated frequency:
 - Threshold
 - Gradient
- Positive Sequence:
 - Threshold
 - Gradient
- Negative Sequence:
 - Threshold
- Zero sequence:
 - Threshold
- Digital channels:
 - Rising or falling edge
- Other: External trigger (cross-triggering)
- Manual trigger from HMI
- Trigger via communications

Recording modes

- Continuous
- Separated
- Ignored
- Programmable description texts in recorded channels





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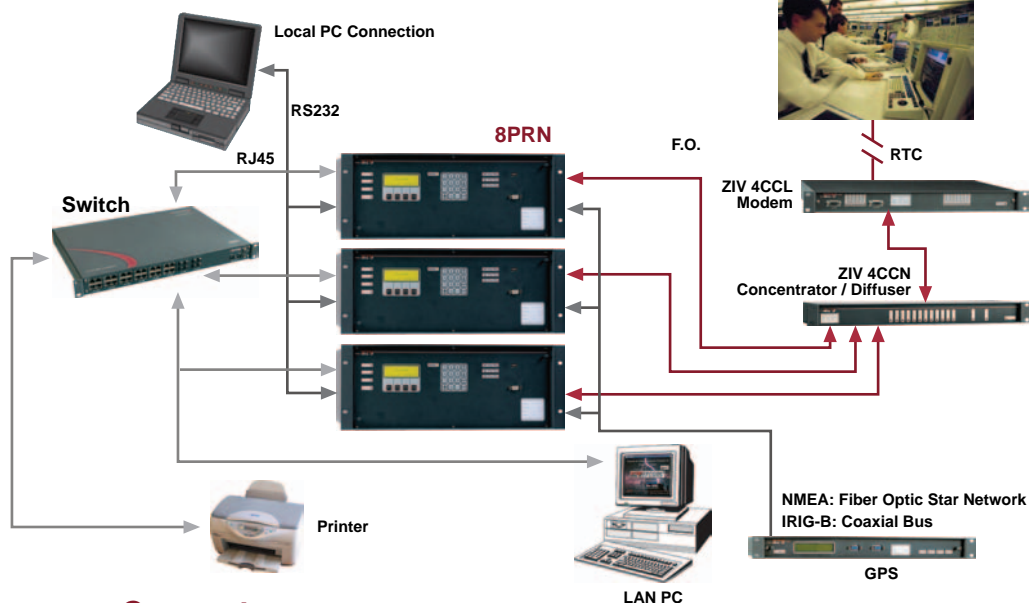
Additional Features

- Fault locator
- Event recording
- New communication program
- Mercomplus®
- Oscillography analysis software

Accessories

- External USB hard drive
- Printer
- Printer server
- Ethernet switch for LAN with multiple 8PRN units, printer and PC
- Fiber optic concentrator to connect multiple 8PRN units
- Modem for remote access

Communications Capabilities



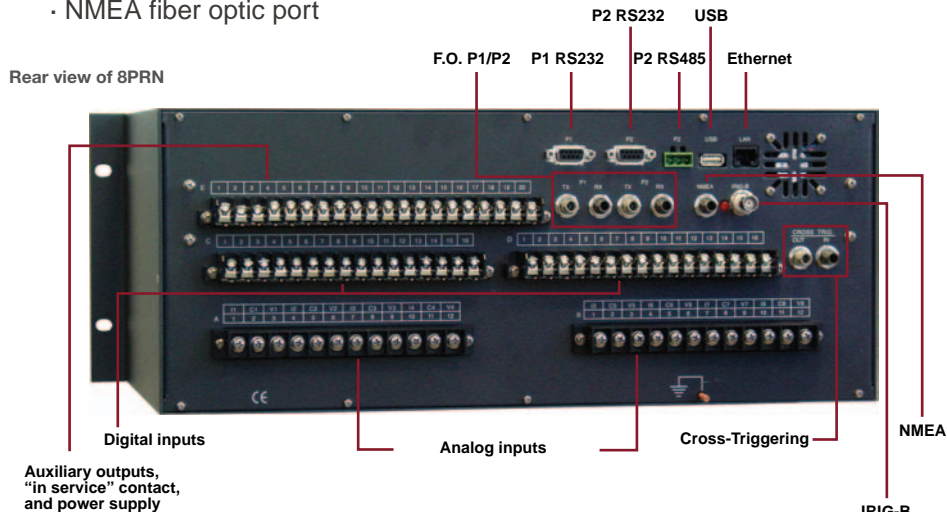
Connectors

FTP access to oscillograph files

- RS-232 configuration port (front)
- 2 External USB Hard Drive ports (front and rear)
- Full modem / FO communications port
- Serial RS-232 / RS-485 / FO port
- Ethernet 10/100 Base-T RJ-45 port
- USB Printer port
- Fiber optic port for cross-triggering

Time synchronization

- IRIG-B v.123 BNC port
- NMEA fiber optic port



HPRN0807A

