

# **8PRN** Disturbance Recorder





#### 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.

A Compact Solution featuring up to 384 samples per cycle with Ethernet Accessibility

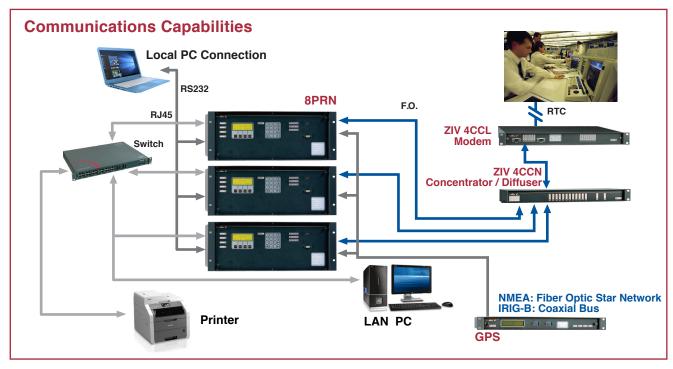
#### Versatile triggering and recording modes

- 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

Programmable description texts in recorded channels.

Making the Smart Grid Real





#### **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.

## **Additional Features**

- ✓ Fault locator.
- ✓ Event recording.
- ✓ New communication program ZivercomPlus®.
- ✓ Oscillography analysis software.

#### **Time synchronization**

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

## 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.

## 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.

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· Fiber optic port for cross-triggering.



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