8PRN
Disturbance Recorder

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.

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.
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 φ.
- 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.
- Ethernet 10/100 Base-T RJ-45 port.
- USB Printer port.
- Fiber optic port for cross-triggering.

Rear View

1. Auxiliary outputs, "in service" contact and power supply
2. Digital Inputs.
3. Analog Inputs.
4. Cross-Triggering
5. NMEA / IRIG-B
6. P1 / P2: Optic Fiber
7. [P1 / P2: RS232][P2: RS485][USB][Ethernet]