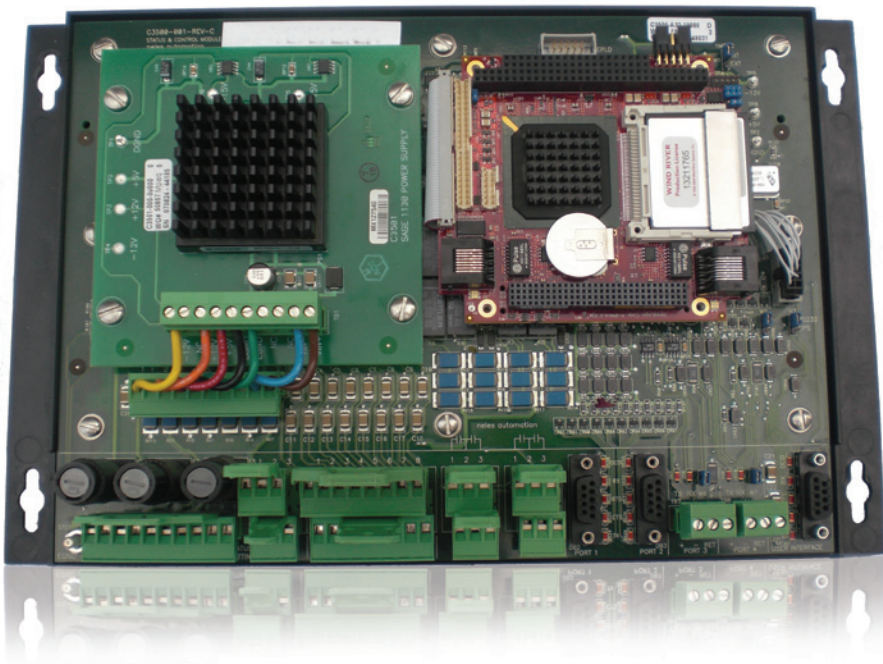


# SAGE 1430

Compact status and control module with powerful IED integration capabilities



Make the most of your energy<sup>SM</sup>

**Schneider**  
Electric<sup>™</sup>

# SAGE 1430

## Features

Compact Footprint (8"W x 12.5"L x 4"H)

Two — Built-in 10/100 Mbps Ethernet® ports (independent IPs)

Optional — four port Ethernet switch

Two RS232 w/LEDs for DCD, RX, RTS, CTS and TX (Expandable to 10)

Two RS485 w/LEDs for RX and TX (two wire operation)

Separate PPP port for serial dial-up

AMD LX-800 500 MHz CPU with 1 GB flash memory

Non Windows® OS

PC/104™ bus architecture

16 Digital Inputs (Status/Accumulator/SOE)

4 T/C Momentary Controls (8 relays)

Easy to connect removable Phoenix® type terminal blocks

Browser based "UIF" User Interface Configuration Tool (Uses Internet Explorer®)

\*no proprietary software required

Designed for Electric Utility applications

- Meet IEEE 472, ANSI C37.90 SWC
- Meet C37.90.1 standards

Optional on board GPS Receiver

Optional IRIG-B Input/Output

Optional DC Analog Input Module

On board LEDs show operational status

- Power / Full Comm Status indications

Full three Year Warranty Standard

IP Sec Security

- HTTPS
- Encryption
- SSL/SSH
- Firewall

Complete MTU/ IED protocol library (standard with every unit)

Built-in 125 VDC/20-60 VDC/120 VAC power supply

## Specifications

### CPU/Memory

Processor / Speed	AMDLX-800, 500 MHz
DRAM	256 MB
BB RAM	2 MB
Compact Flash	1 GB
Bios Flash	1 MB
Real Time Clock	±10 sec per day (115ppm)
Battery	3.0V Rechargeable Lithium Model BR2330A (Standby power for 10+ years)

### Communications

Ethernet	2 built-in 10/100 BASE-T (RJ45) Independent IPs
Serial	2 RS232 (DB-9) (up to 10 with expansion modules) 2 RS485 (3-wire Phoenix connector)
PPP/Console	RS232C (DB-9)
Serial Speeds	300-115,200 bps
Protocols	Synchronous and asynchronous

### Power Requirements

Input Voltage Sources	12VDC, 24VDC, 48VDC, 129VDC, 120/240VAC
Input Power	10.5 Watts typical
Input/Output Isolation	500 VDC
Loop Excitation	± 12VDC wetting provided for digital inputs

### Environmental

Operating Temperature	-40° to +85° C
Relative Humidity	5% to 95%, non-condensing
Transient Protection	All user field connections designed to pass IEEE 472-1974, ANSI C37.90-1979 (R1982), ANSI C37.90.1-1989

### Visual Indications

Baseboard	RTU input power LED Execute LED for SBO Power 5 LEDs per RS-232 COMM port (DCD, RX, RTS, TX, CTS) 2 LEDs per RS-485 COMM port (TX, RX)
PC/104 CPU LEDs	Primary Ethernet Link/Activity Primary Ethernet Link Speed Secondary Ethernet Link/Activity Secondary Ethernet Link Speed



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## Specifications

### User Interface

Web Browser	Internet Explorer®
Ethernet	10/100 BASE-T (RJ45)
PPP	38.4kbps (RS232C)

### Digital Inputs used as status inputs

Isolation	Optically isolated, 1500VDC
Loop Voltages	± 12VDC, ± 24VDC
Debounce	20 msec nominal
Configuration	1 terminal per point (common ground)
Max Input Points	16
Timing	5 msec time tagged
Indicators	None
Storage Capacity	256 events

### Used as accumulator inputs

Formats	FA, FC (1 or 2 counts/cycle)
Input Rate	20 pps max
Max Input Points	16FA / 8FC

### SBO Control Outputs

Duration	Software programmable in 5 msec increments
Contact Form	Form A (one side common on each relay pair)
Contact Ratings	30 VDC @ 2A
Control Points	4 T/C Pairs (8 relays)

### Size

Baseboard	8"x 12.5"x 4.25" (includes CPU & Power Supply module)
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