

8210 DATALOGGER & CONTROLLER

8210-0014



Installed worldwide, the extremely versatile, multi-tasking 8210 features...

- Dual Communications in the Same Box, Operating Simultaneously
- 3 Distinctive Style Cases
- 8 Different Telemetry Options

APPLICATIONS

- Flood warning
- Hydrological
- Meteorological
- AGRIMET
- System control and data acquisition
- Storm water runoff/water quality
- Customized system design with standard modules

OPTION

Support of MODBUS Communications Protocol. Available data interface is via either LOS radio, CDPD modem INTERNET connection or dial up telephone connection. Contact Sales for further information. (703)406-2800 email: sales@sutron.com

- Easy to program & set up (organized by menus)
- Ruggedized for harsh environments, fully functional from -40°C to +60°C
- Sealed, water-resistant, conformally coated, corrosion resistant boards
- Tiny Basic-capable for special applications
- Satellite, LOS, telephone, modem, cellular telephone communications
- Accepts counter, frequency, analog, RS-232, RS 485, and SDI-12 sensor inputs
- True Industry Standard RS-485 Port, Internal Auxiliary RS-232 Port & Dedicated SDI-12 Port with 3 Wire Terminal
- 20 Digital Input-Output Lines for SCADA or Other Control Applications
- 8 Analog Inputs
- 5 Counter Inputs
- Months of unattended recording before the internal battery requires recharging
- Keypad, display on front panel for simple setup
- Password lockouts
- Peer to peer data transfer and polling
- Internal Dual Communications
- PCMCIA Memory Card Port for Data or Programming Storage
- Solar Panel Battery Regulator Current Increased to 1.5 Amps for Larger Solar Panels

ORDERING

- | | |
|---------------|--|
| 8210-0014-1A | Data Recorder, 8210, fiberglass enclosure, integral terminal strip (basic) |
| 8210-0014-SL2 | Data Recorder, 8210 with SatLink-2 Transmitter (HDR) |

SUTRON

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SPECIFICATIONS ALL MODELS OF 8210

Dimensions	12 in. x10 in. x 6 in. enclosure, molded fiberglass polyester construction. With quick release latches. (Other enclosures available)
Temperatures	-40°C to +60°C Operating
Processor	NEC V25 plus, Clock speed 5 MHz
Memory	RAM 122K (or 62,000 readings), Expandable to a total of 372K (or 190,000 Readings) in 128K Increments. Battery backed up EPROM 256K Operating System
Battery Backup	Lithium Battery storage: 2 years min. (depending on environment) Back up Life: 1 year min.
Real-Time Clock	Accuracy of 1 minute/month (GOES units have greater accuracy)
Watchdog Timer	System Reset upon microprocessor failure
Sample Intervals	1 sec. to 24 hr. in 1 second increments
Data Retrieval	RS-232 Port PCMCIA Memory Card Slot (10 sec download time)
Visual Display	16 character alphanumeric LED
Serial Sensor	Connection through RS-232 port (Unit remains programmable through port)
SDI-12	Fully supported through SDI-12 port
Communications	Up to THREE (2 internal and 1 external) of the following: Satellite Radio, LOS Radio, Telephone w/Modem and Speech Synthesis
Power Supply	Internal Battery (-0014 and -3014 models only), 6.5 aH @ 12V, operates 8210 for 90 days at 15 minute sampling. Internal charger regulator 1.25 amps max for solar panel input or DC voltage
Power Consumption	Quiescent: 600 uA Typical Avg: 2 mA @ 15 - minute intervals of shaft encoder sample

Digital Inputs and Outputs	Qty 20, under software control, wiring compatible with OPTO-22 equipment. Software Control of switched 12VDC power
Shaft Encoders	Switch closure w/quadrature inputs (2 max.) 3 wire + 12V (4 wire) interface to counters
Tipping Bucket Rain Gauges	(5 max.) Input Levels: 0-5V Switch closure
Counter Inputs	Resolution:16 bits,5 inputs available
Max. Input Freq.	32 KHz ± 0.1% w/o rollover 1 MHz max. w/rollover
Analog Inputs	8 Standard Resolution: 13 bits Accuracy: ± 0.05% of full scale over temperature range Input Range: 0-5V Standard DC Excitation Output: +5V, +12V Pwr Consumption A/D: 30 mW active
Pressure	DC Excitation: ±5V Interface
Transducer	Differential Input Range: -5V to +100 mV

