



DATA LOGGERS

FTS H2

ESPECIFICACIONES TÉCNICAS



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El registrador de datos H2 es ideal para aplicaciones hidrológicas o hidrometeorológicas simples a complejas donde la confiabilidad es primordial y/o la estación es muy remota.

El registrador de datos H2 es un registrador de datos resistente (DCP) diseñado para la recopilación remota de datos y aplicaciones complejas de sensores SDI-12. Cuenta con cuatro puertos SDI-12 independientes eléctricamente aislados, cada uno de los cuales puede manejar hasta 500 mA, y un regulador solar integrado.



CARACTERÍSTICAS

Technical Specifications	
Hardware	
Display/touchscreen:	<ul style="list-style-type: none"> Graphical color touch screen display, 3.65" (diagonal), QVGA (320x240 pixels). Display is transfective (readable in low light and outdoors in bright daylight) Displays system status, configuration, stored data (graphical and tabular) and provides system configuration and troubleshooting diagnostics. Displays voltage and current separately for battery and solar panel and battery temperature. Supports troubleshooting, configuration and programming.
CPU:	<ul style="list-style-type: none"> Two (2) CPUs total, both low-power RISC. Main CPU is 200MHz 32-bit ARM.
Memory/storage:	<ul style="list-style-type: none"> 64MB RAM 256MB fixed physical, non-volatile flash memory for data and program storage. Data is stored in a circular 10MB buffer (oldest data overwritten by newest when buffer full). Based on NFDERS logging criteria, 7,575 days (about 20 years) of data can be stored.
Device ports:	<ul style="list-style-type: none"> 2 waterproof USB 2.0 host ports, 1.5Mbps and 12 Mbps, support for flash memory and other USB-compliant devices. 1 waterproof USB 2.0 12 Mbps device port with automatic PC detect. Supports USB keyboard and mouse. GOES RF output: N-type jack GPS RF input: SMA jack
Sensor ports:	<ul style="list-style-type: none"> Waterproof, color-coded, military-style connectors. Dedicated ports (H2): <ul style="list-style-type: none"> rain gauge (counter) 4 Independent SDI-12 V1.3 ports able to communicate with a maximum of 62 digital sensors. SDI ports each support up to 500mA and are electrically isolated.
Serial ports:	<ul style="list-style-type: none"> 2 ports factory configured as internal GOES transmitter and one external, waterproof, military-style bayonet connector Signal levels: RS232C Signals: TXD, RXD, RTS, CTS, DCD, DTR, RI
Environmental sealing, size, weight:	<ul style="list-style-type: none"> Waterproof to IP67, O-ring sealed, cast aluminum & stainless steel hardware, engineered resin bezel Dimensions: 10" W x 8" H x 6" D Weight: approx. 8 lbs.
Power supply:	<ul style="list-style-type: none"> Internal, temperature compensated PWM charge regulator Waterproof, military style bayonet connectors for solar panel and battery. Sensing of battery voltage, battery current, battery temp, solar voltage and solar current. 9.6VDC to 20VDC operating voltage.



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Software

- Station identification:**
 - The station's name, NESID and GOES data can be easily identified on the touchscreen display.
- Programming:**
 - All programming done through intuitive graphical user interface (GUI) without writing code.
 - GUI accessed through integrated touchscreen.
 - Unlimited setup configurations are stored directly on the datalogger; different configurations can be selected or a new one created with the GUI.
- Electronic service reports:**
 - All of the data recorded by field techs during a service call can be captured electronically in the Axiom and saved to a USB memory stick.
 - Data includes:
 - a list of sensor serial numbers before and after the service trip.
 - Audit log.
 - datalogger program version.
 - latitude, longitude, elevation.
- Datalogger Performance verification:**
 - Graph sensor data and diagnostic parameters.
 - Battery load tests; view voltage before and after (requires dummy load on battery).
 - View current sensor readings.
 - View historical data.
 - View GPS performance stats.
 - View forward and reflected power stats to check GOES antenna performance.
- One-touch current conditions:**
 - Users can customize the Current Conditions screen so that all sensors' real-time data are viewable with one button press, extremely handy when validating wind quadrants or simply validating each sensor as it is replaced.
- Data transfer via USB memory stick:**
 - Data, Programs and Firmware updates can be transferred to and from datalogger via a conventional USB memory stick.
 - Historical data download is fast: approximately 5 seconds for 1 year of data including logger and telemetry records.
 - Data downloaded in universal .CSV (comma-separated values) format; importable into Excel and many other software.

GOES Transmitter

- Manufacturer:**
 - FTS
- Supported baud rates:**
 - 100 bps
 - 300 bps
 - 1,200 bps
- Operating supply voltage:**
 - 10.8 VDC to 16 VDC



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Environmental Protection

Operational moisture range: 0-100% RH, condensing

Operational temperature range: G6 and Datalogger operation: -40°C to +60°C; Storage: -55°C to +70°C

Lightning protection: Three-stage protection circuit offers superior protection: Stage 1: transient earth clamp; Stage 2: series impedance; Stage 3: high speed shunt diode.

UV resistance: Excellent, as minimal plastics are used. Cable housing and omnidirectional GOES antenna are UV stable.

Electronics protection: Core electronics sealed from moisture and dust in waterproof housings, completely isolated from environment and user; All non-telemetry data exchange (firmware upgrades, report downloads) performed through waterproof USB port; Battery overcharge protection.

IP code rating: IP67

Power Consumption

Datalogger current: Idle: 7-8mA (no integrated GOES transmitter), 7-8mA (with integrated GOES transmitter); Active (collecting data): 12mA (with integrated GOES transmitter); Touchscreen backlight on: 60mA; GOES transmit: 2.6A; GPS on: <50mA

Power status: Datalogger measures and logs solar panel voltage, solar panel current, battery voltage, battery current and battery temperature; Status indicators (always visible) allow techs to identify if the system is charging correctly or not; This data is also part of the Current Conditions screen call and are captured in the electronic service report.



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