

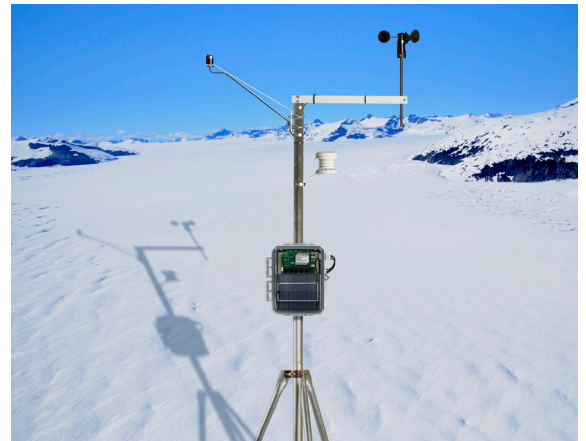


The DataGarrison™ Satellite Station is a solar-powered environmental monitoring and transmitting device. It utilizes Onset® Computer Corporation's award-winning plug-and-play HOBO® Smart Sensors for high-accuracy, research-grade performance. With the push of a button, the DataGarrison Station begins streaming data to the DataGarrison.com secure data center via an on-board satellite link.

Customers can access remote data securely from any Internet-enabled computer. From password-protected accounts, users can view or download their data over a secure 256-bit encrypted connection. Customers can also change parameters at the remote site such as logging interval and server update rate with an easy-to-use browser-based interface.

Key Advantages

- Worldwide satellite coverage
- Plug-and-play compatibility with HOBO Smart Sensors
- Weather alerts sent via text or email messages
- Smart-charging solar technology
- Automatically transmits data to user accounts at DataGarrison.com
- Operates on Iridium's truly global satellite network



Research-grade Dependability

DataGarrison Satellite Stations are solar-powered logging and transmitting devices, compatible with all HOBO Smart Sensors from Onset Computer Corporation. With the push of a button, the DataGarrison station transmits environmental data to secure online user accounts, and alerts users if sensors exceed user-defined alarm conditions. Users can monitor and configure DataGarrison devices remotely with an easy-to-use online interface at www.DataGarrison.com.

All DataGarrison Stations are designed to survive in harsh environments—from -40 to 80 degrees Celsius and at any humidity level. The durable weatherproof enclosure is NEMA 6 rated and includes a GORE™ vent to keep moisture out. Mounting hardware is constructed from corrosion-resistant galvanized steel.

Proprietary smart-charging technology automatically compensates for temperature variations, maximizing DataGarrison's battery life and power storage capacity. Power level is monitored and transmitted with sensor data for continuous monitoring.

Specifications

Temperature Range	Temperature Range -30 to 60° C (-22 to 140° F) Optional industrial battery packs available to extend temperature range up to 80° C (176° F)
Power	A 1.2 Watt solar panel and the optional 2.5 AH industrial grade rechargeable battery pack are designed to last up to 15 years
Solar charging	Temperature compensated charging voltage optimizes battery life and performance. Typically requires an average of one to two hours of direct sunlight per day. Will typically operate for one month in clouded conditions
Weight	2.8 kg (6 lbs)
Dimensions	20 X 15 X 10 cm (8 X 6 X 4 inches)
Environmental Rating	NEMA 6 weatherproof. Indoor and outdoor versions available.
Communication ports	Two serial ports for configuration and interfacing with external serial devices
Smart Sensor ports	Six ports available
Average power consumption	Satellite linking/transmitting/receiving (70 mA) and sleep (1.1 mA)
LED's	Four LED's on main circuit board indicate Power, In Range, Receiver On, and Low Battery.
Server updates (satellite transmission frequency)	User configurable from every 5 minutes to once a month
Minimum recommended logging interval	every 2.5 minutes
Remote alarms	User configurable low battery alarm and high/low sensor value alarms Average sensor alarm latency: logging interval plus 30 seconds during typical network conditions.
Remote control	Can be controlled over the Internet. Functions include setting alarm limits and changing the data logging or transmission intervals
Data formats	Tab-delimited text
Data access	Raw data is accessible from any Web browser via a password-protected, secure 256-bit connection. Live plots can be configured and viewed from the same online account.
Mounting	Sun-facing wall or pole. Sold with clamps for mounting on poles from 1.5 to 2 inches in diameter.
Frequency	1616 to 1626.5 MHz
Satellite Network	Iridium Satellite Constellation
Coverage	Works throughout the world in areas with lines of sight to the sky
Federal specifications	FCC certified for use in the U.S. and authorized for use throughout the world. Call for details regarding worldwide operation.
Enclosure Access	Hinged door secured by two latches, which can be further secured with user-supplied padlocks

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About Upward Innovations

- World Record: An Upward Innovations Inc. satellite transmitter is presently the furthest north land-based transmitting station on earth. It is transmitting weather data daily on top of the Milne Ice shelf in Northern Canada.
- Upward Innovations Inc. develops and manufactures remote data retrieval systems. Their environmental monitoring stations can operate virtually anywhere on earth via satellite and cellular data networks.
- All systems include fully automated field-to-Internet data transfer, remote alarming, real-time plotting and 24/7 data access.
- Users are provided with password-protected accounts and 256-bit encryption for data transfers at DataGarrison.com