

SOLARSTREAM SATELLITE IRIDIUM SPECIFICATIONS



SOLARSTREAM solar-powered transmitters and controllers are compatible with Onset Computer Corporation's HOBO[®] Micro Stations, Weather Stations, and Energy Pro loggers. Energy Pro loggers can be installed in a customized enclosure, together with the satellite transceiver and battery. These systems automatically transmit environmental data to a secure Internet server and alert customers (via email or text message) of user-defined alarm conditions, such as freezing temperatures or low soil moisture.

Customers 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 web interface.

HOBO is a registered trademark of Onset Computer Corporation.

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Specifications

<i>SolarStream Satellite (Iridium) data transceiver</i>	
Temperature Range	-40 to 80 C (-40 to 176 F)
Power	1.2 Watt solar panel and 2.5 AH rechargeable battery pack 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	Enclosure: 12.7 X 7.6 X 17.8 cm (5 X 3 X 7 inches) or FlexSmart-compatible enclosure: 28.7 X 23.6 X 12.6 cm (9.30 X 7.31 X 4.96 in.)
Environmental Rating	NEMA 6 weatherproof. Indoor and outdoor versions available.
Communication	Two serial ports for configuration and interfacing with external serial device
Power consumption	Satellite linking/receiving (70 mA) and sleep (1.4 mA). Transmitter configurable to two or five watt pulsed operation.
LED's	Four LED's on main circuit board indicate Power, In Range, Receiver On, and Low Battery. Two multi-color LED's on satellite module indicate Power, Satellite link, Message into and out of queue.
Server update	User configurable from every 30 minutes to once a month
Remote alarms	User configurable low battery alarm and high/low sensor value alarms. Maximum latency: logging interval plus five minutes during typical network conditions.
Remote control	SolarStream and the attached weather station can be controlled over the Web. Functions include checking battery state and changing the server update rate or data logging interval.
Data formats	Tab-delimited text, HOBOWare, and BoxCar Pro
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 connection.
Mounting	Sun-facing wall or pole, angled upward. Tilt angle based on latitude. Sold with bracket 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.
Federal specifications	FCC certified for use in the U.S. and authorized for use throughout the world. Call for details regarding worldwide operation.