SUTRON
an OTT HydroMet brand

SatLink 3

Applications
Stream Gaging
Flood Warning
Discharge Monitoring
Watershed Monitoring
Water Quality Monitoring
Nutrient Monitoring
Lake/Reservoir Monitoring
Tide Monitoring
Groundwater Monitoring
Meteorological Observation

Logger/Transmitter

With optional cellular and Iridium communications

Cost-effective way to measure, log, calculate, and transmit data from remote locations
32 independent measurements with 1,000,000 readings of most hydrological, meteorological, environmental or related sensors
Built-in support for all meteorological satellites including GOES, EUMETSAT, INSAT, and MTSAT to operate anywhere
Improved analog accuracy and high resolution analog channels with support for 2 additional plug and play modems
Wi-Fi for operation with wireless devices, including smart phones, tablets, and PCs
Support for mathematical equations and statistical averages for processing measured values

Compact multi-communication logger

Built-in SDI-12, Analog, Digital, RS485 and 4-20mA measurement circuitry with lightning protection. Two independent SDI-12 inputs/ ports increases the flexibility of SDI sensor scheduling with up to 2 additional slots for modems and up to 3 built-in slots for GOES transmitter and 2 redundancies..

Adaptable over time

Allows for support of rapidly changing communications standards, preventing hardware obsolesce.

Simple and intuitive software

Use with LinkComm interface for intuitive programming with the Android, iPhone, PC, and Mac. The SatLink 3 can also be paired with Hydromet Cloud for data collection, retrieval, and viewing via the web.

Python scripting

Application specific behaviors and extended connectivity beyond standard sensor configurations and data formats with Python scripting.

OTT HydroMet

Technical Specifications

Feature	
GENERAL INFORMATION	
SIZE	6.06 in. x 9.24 in. x 2 in.
WEIGHT	3.1 lbs (1.42kg)
IP RATING	IP63 (with NEMA enclosure)
OPERATING TEMPERATURE	-40° C to +70° C
POWER REQUIREMENTS	
VOLTAGE	9-20 VDC
QUIESCENT	< 2 mA typ @12.5 VDC
SDI-12	
INDEPENDENT CHANNELS	2
COMPLIANCE	V1.3 logger
POWER	500mA max
ANALOG - SINGLE ENDED	
NUMBER OF INPUTS	2
RANGE*	0-5V
ACCURACY @ 25°C	0.004% typ
RESOLUTION	0.298 µV
ANALOG - DIFFERENTIAL	
NUMBER OF INPUTS	3
RANGE*	± 39mV, ± 312mV, ± 2.5V
ACCURACY @ 25°C	0.004% typ
RESOLUTION	0.298 µV @ ± 2.5V scale
ANALOG - 4-20MA	
NUMBER OF INPUTS	1
RANGE	0-22mA
ACCURACY @ 25°C	0.02%
LOAD	Internal 200Ω
DIGITAL - INPUTS/OUTPUTS	
NUMBER OF INPUTS	2, 0-15 V, optional low level input
INPUT TYPE	Status, counter, frequency
MAX INPUT FREQUENCY	10KHz, optional debouncing, internal pull
NUMBER OF OUTPUTS	2
OUTPUT TYPES	On/off/pulse Open collector w/100 ohm limiting resistor. 100mA, 15V max
OTHER I/OS & CONNECTIONS	
PRECISION ANALOG REFERENCE	2.5V 10.0 mA
SWITCH 12V	1.0 A (2 available)
PROTECTED 12V	1.0 A
RS485	
GPS INPUT	SMA-F
RS232	DB9
USB (OTG)	USB MICRO AB
USB HOST	Type A
microSD	Internal, Expandable Up to 32 GB
RF POWER OUTPUT AND TX FREQUENCY	
RF OUTPUT POWER	1.25-14 Watts depending on settings
RF TRANSMIT FREQUENCY	401.63 MHz to 402.85 MHz (depending on satellite type and channel assignment)

CE COMPLIANT

Enclosure Display

Inside the Enclosure

NOTE: In humid/hostile environments we RECOMMEND installing SatLink in a NEMA 4 enclosure. Sutron also recommends adding a lightning protection module such as the Sutron 8111-1113-1 for remote systems.

**Nominal. Guaranteed Analog Input Range Over Temperature Is 0-4.98 V, ± 2.49 V, ± 311 mV, ± 38.9 mV.*