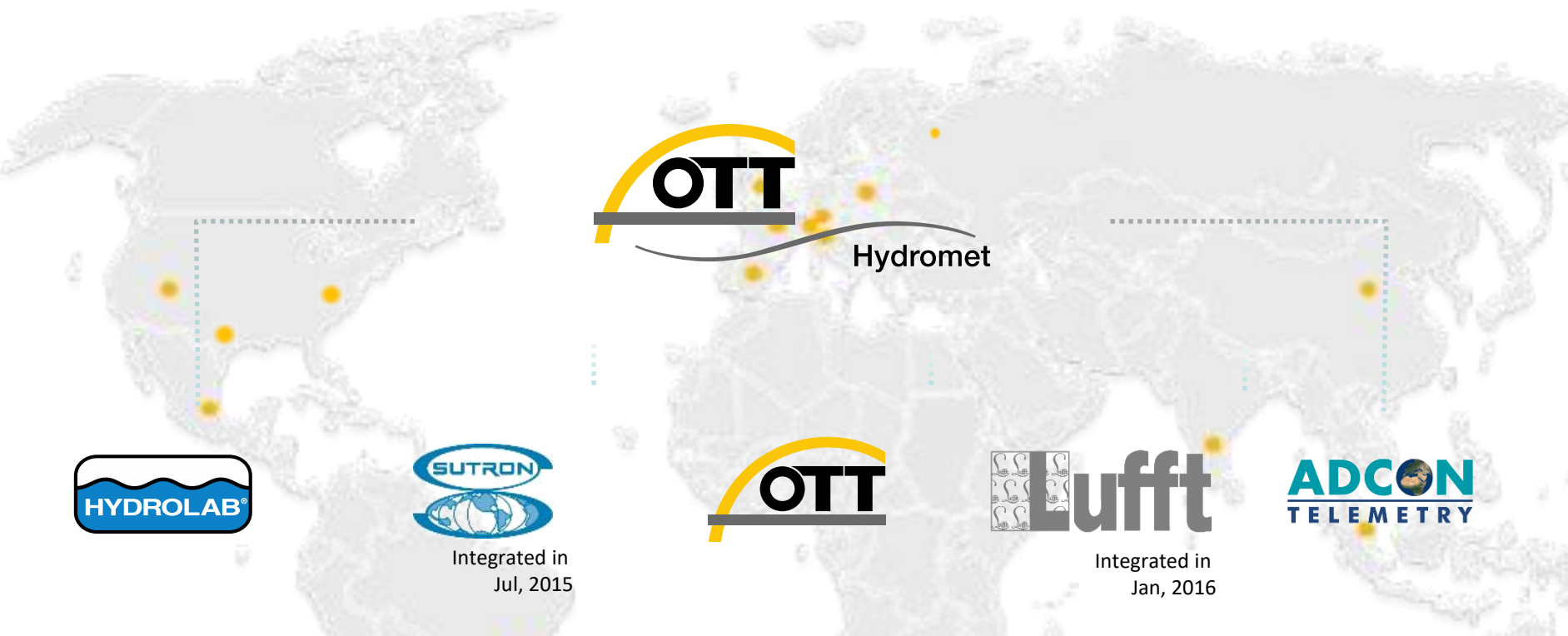




OTT Hydromet / Sutron

Dental	Environmental	Life Sciences & Diagnostics	Industrial Technologies
<p>Dental</p>  <p>KaVo. Dental Excellence.</p>    <p>Your Practice. Our Priority.</p> 	<p>Water Quality</p>     	<p>Diagnostics</p>    <p>Life Sciences</p>     	<p>Product ID</p>    



Integrated in
Jul, 2015



Integrated in
Jan, 2016



Loveland
USA



Water Quality
Instrumentation

Sutron
USA



Water Quantity
Telemetry
Meteorology
Air Quality
Instrumentation

Kempton
Germany



Water Quantity
Instrumentation,
Global
Headquarters

Fellbach
Germany



Meteorology
Instrumentation

Vienna
Austria



Agro-Met
Telemetry
Instrumentation

Powerful Programmable Loggers

- Xpert



- 9210B – Xlite
(Shown with and without enclosure)



- 8310
(Shown with and without enclosure)



- 7310

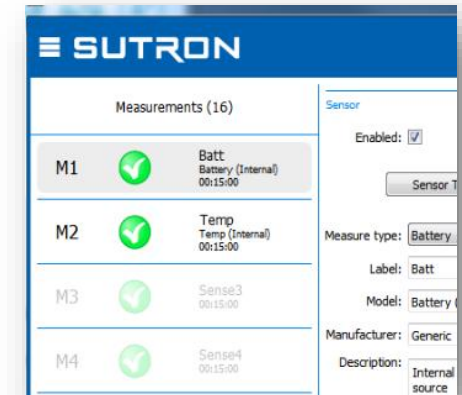


Sutron's SatLink3 datalogger with built-in GOES satellite transmitter is especially designed for hydrology, meteorology and environment monitoring.



SatLink3 does everything an SL2 did with the following enhancements:

- Wi-Fi for operation with wireless devices
- Expanded measurements from 16 to 32
- Expanded SDI capacity with 2 independent SDI-12 inputs
- Optional cell/Iridium modems for redundant 2-way communications
- Expanded log from 120,000 to 1,000,000 readings
- Improved analog accuracy & additional analog channels
- Certified for GOES, EUMETSAT 1200, and INSAT.



Linkcomm Mobile App

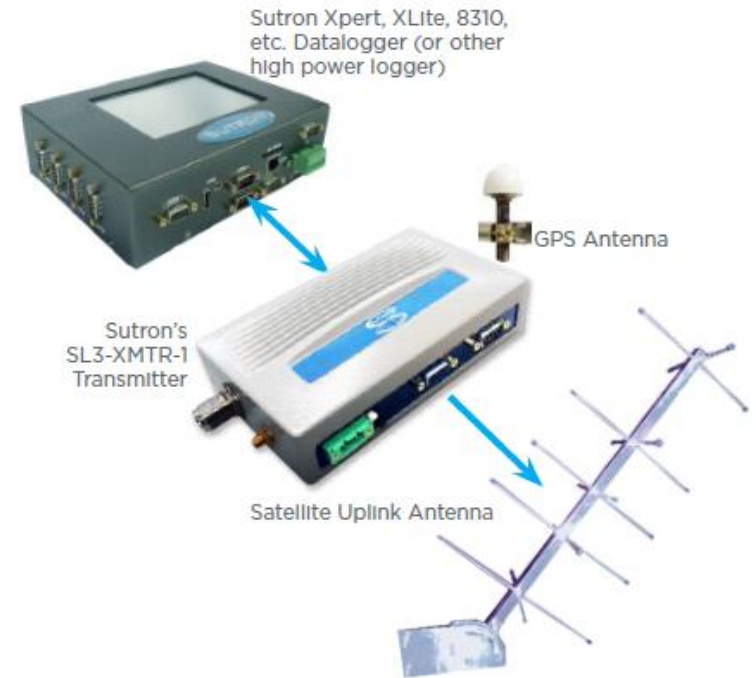
- Wi-Fi connection to Apple IOS or Android Device with supplied Linkcomm App.





SatLink3 supports GOES, Iridium, and Cellular transmission options all with one datalogger!

Designed for GOES Satellite applications where an external data logger is needed...



Full featured Transmitter/Logger (SL3-1)

SL3 in Enclosure with Display
SL3 in Enc with no Display



Transmitter only (SL3-XMTR-1)



Option modules

- Iridium
- Cellular
- Programmable Voltage Reference

Sutron's *X-Link* product line, offers you an all-in-one data logger with built-in *Measurements, Telemetry, and Solar Regulator using Wi-Fi and Linkcomm Mobile App.*

Telemetry Options

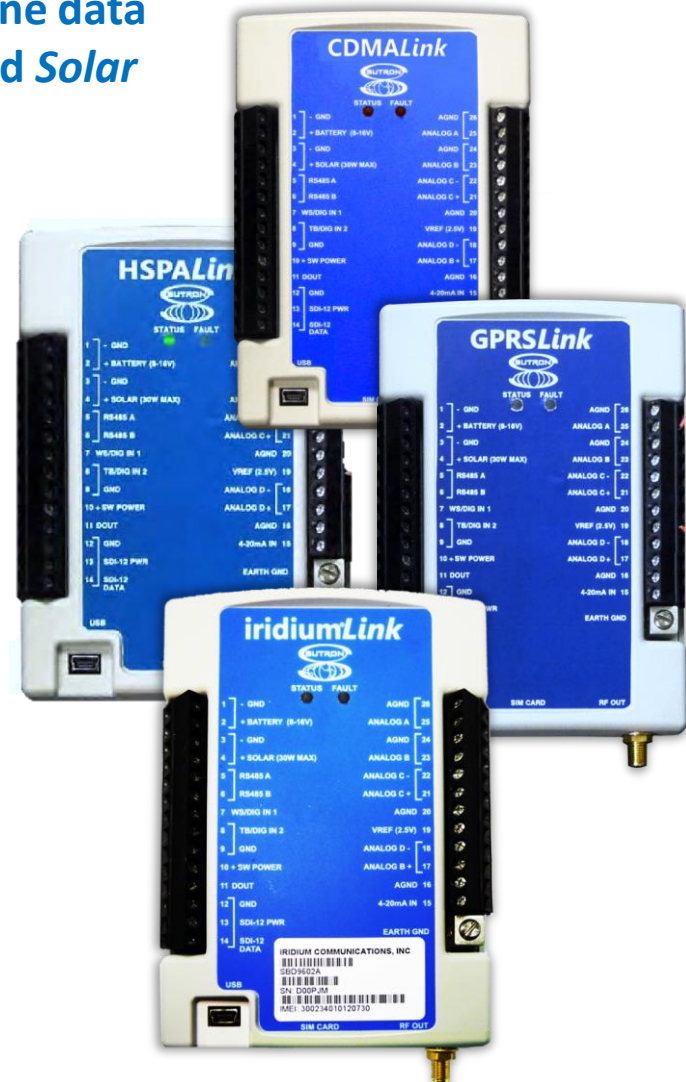
- GPRS/HSPA
- CDMA
- Iridium Satellite

Applications

- Ground water systems
- Rainfall system
- Surface water system

Measurement Capabilities

- Instantaneous
- Averages
- Min/Max





Sutron's XLink 100/500 product family offers a cost-effective way to measure, compute, log and transmit data from remote locations. The product comes in two model configurations to fit application needs and budget constraints.

Optimized for simple met and hydrologic applications with broad or custom measurements requirement.

(CE Certified)

Supports all Xlink-100 functionality

Internal solar regulator to easily, and cost effectively, recharge your battery (handles up to 20 watts solar panels).

Custom programming using **Python**: Supports applications beyond standard configuration, transmissions and measurements.



Lightning protection, from direct or indirect hits, on all pins.

24 Bit ADC for high resolution analog (Single Ended, Differential and 4-20mA) signal measurements.

Protected 12V – Separate power to sensors with cutoff protection.

RS-232 connection to external modems, displays and others through **Python**.

Entry level logger optimized for simple met and hydrological applications utilizing smart sensors

(CE Certified)

Removable Power Terminal Block. Easily remove power while working with the unit

smart sensors: **RS-485\MODBUS**

Digital IO: TB, Wind Speed and Direction, SCADA

USB Host connector for instantaneous setup and data retrieval without a PC.

smart sensors: **SDI-12** (switchable power)

smart sensors: **RS232\MODBUS**

Expansion Port: Connect to SPI displays or sensors

Sturdy and Small foot print saving you cabinet space
Low quiescence current ($\lt; 1\text{mA}$ typ @ 12.5VDC)

LinkComm (**PC, iPhone or Android**) enables **secure** and easy remote configuration and data access and on site connectivity via Wi-Fi, USB or Serial.

Field replaceable, **plug-n-play modems** allows you to keep up with technology and the freedom to change the service provider.

Flexible transmission (**HTTP(s), TCP/IP, FTP, SMS**) and data format (**SHEF, SHEFFIX, Pseudo-binary, MIS, ASCII, CSV**)

SL3/XLink100/500 Python Scripting Language

- What is it? It is a language that permits customers to write simple programs (Scripts).
- Adds capability to SL3 to handle tasks that previously was not possible with a Satlink 2 or Satlink 3.
- Scripts may be written and tested on a PC and easily incorporated into the system.
- Supports 2 types of script applications: Measurement Scripts and Scheduled Scripts.
- Applications:
 - Alarm activities such as triggering samplers
 - Read and parse RS-232 sensors
 - Gate Control
 - Custom Transmit Formats
 - Special Calculations such as Sun Duration or Dew Point Calculations
 - Displays

GEO-ANT-GPS

Integrated Geo-stationary antenna with built-in GPS

- Transmits from a Data Collection Platform (DCP) to any Geostationary Satellite: GOES, METEOSAT, Himawari, FengYun ...etc
- Beamwidth wide enough to illuminate multiple satellites
- Built-in Active GPS antenna allows uninterrupted GPS signal reception, for precise time synchronization
- Waterproof, UV resistant enclosure with corrosion resistant aluminum mounting bracket with 316 stainless steel hardware for extreme meteorological conditions
- Minimal aiming required
- Gain less than a Yagi, requires more power.
- Shape prevents snow or debris build up



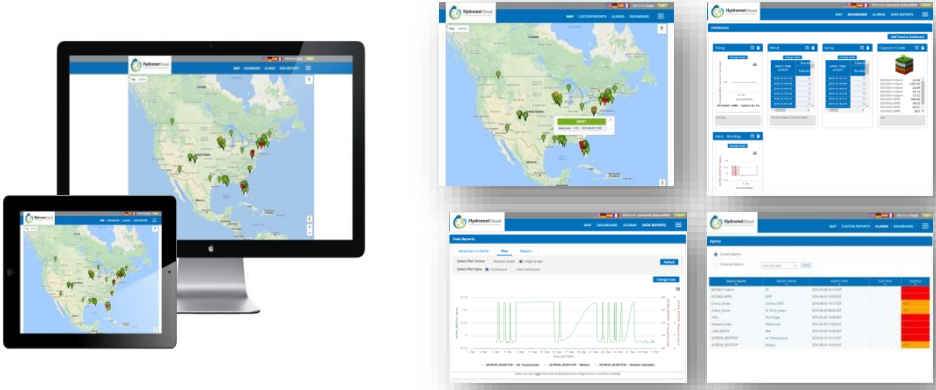
CE, FCC/ISED Certified and RoHS
Compliant

Hydromet Cloud Monitoring Solution

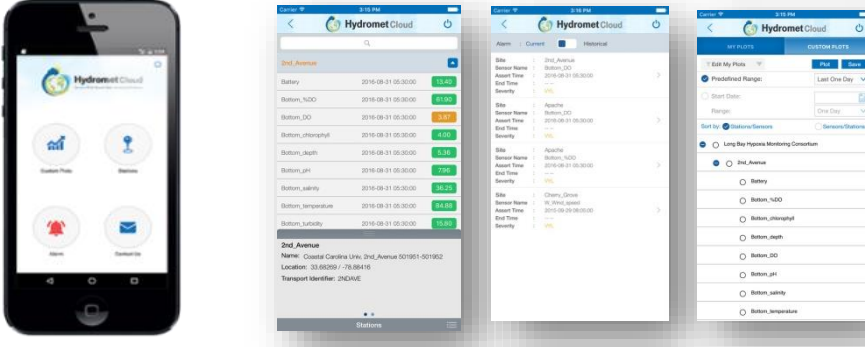
- Receive , Ingest, Decode, Process, Display, Store measurement data
- Data Reporting, Alarms Setup, Advanced Computations, Data Correction



Web Interface



Mobile Interface



Applications

Hydrology – water level, flow/velocity, and precipitation

Groundwater – water level and water quality

Water quality – pH, DO, conductivity, salinity, temperature, turbidity, nutrients, ...

Meteorology – air temperature, relative humidity, wind speed, wind direction, barometric pressure, ...

Thank You !