

GROUNDWATER MONITORING

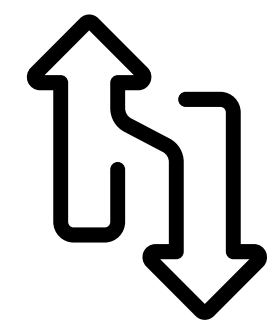
 SELECTION GUIDE

Groundwater Selection Guide

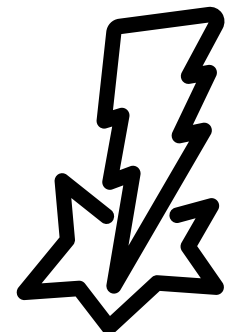
Groundwater monitoring is crucial for many use cases, from flood warning to aquifer characterization and more. Our OTT HydroMet instruments provide reliable, integrated groundwater monitoring solutions for every step of the data transmission journey to measure, collect, and remotely transmit data from the field to your office, for both short- and long-term monitoring.

We offer both all-in-one systems to maintain only one instrument, and customizable systems to mix and match components based on your unique monitoring needs.

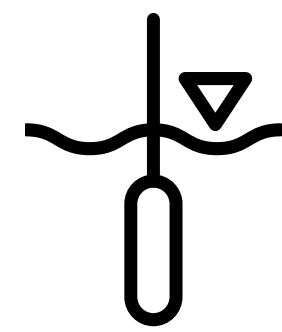
All of our water level measurement sensors for continuous monitoring are fitted with the following common attributes for resilience in the field and easy maintenance:



Simple and Quick Maintenance



904L Stainless Steel



Ceramic Pressure Measurement Cell

Applications

- Data collected continuously or as manual measurements to better assess:
 - Drought
 - Climate change
 - Flooding
 - Dams
 - Aquifer characterization
 - Impact of civil work
 - And more
- Detecting changes in the water table, for water availability and water use over time
- Developing groundwater models to provide long- and short-term forecasts of changing groundwater conditions
- Long-term and short-term monitoring, for ground and surface water, using in-well or in-pipe solutions
- Remote monitoring sites and well sites requiring two-way communication that can mix and match between satellite, cellular, and radio transmissions to allow for consistent data.

Technology to
build a custom solution



NEW
OTT ecoLog 1000



OTT CTD and OTT
Orpheus Mini



OTT PLS
Pressure Sensor



Contact Gauge

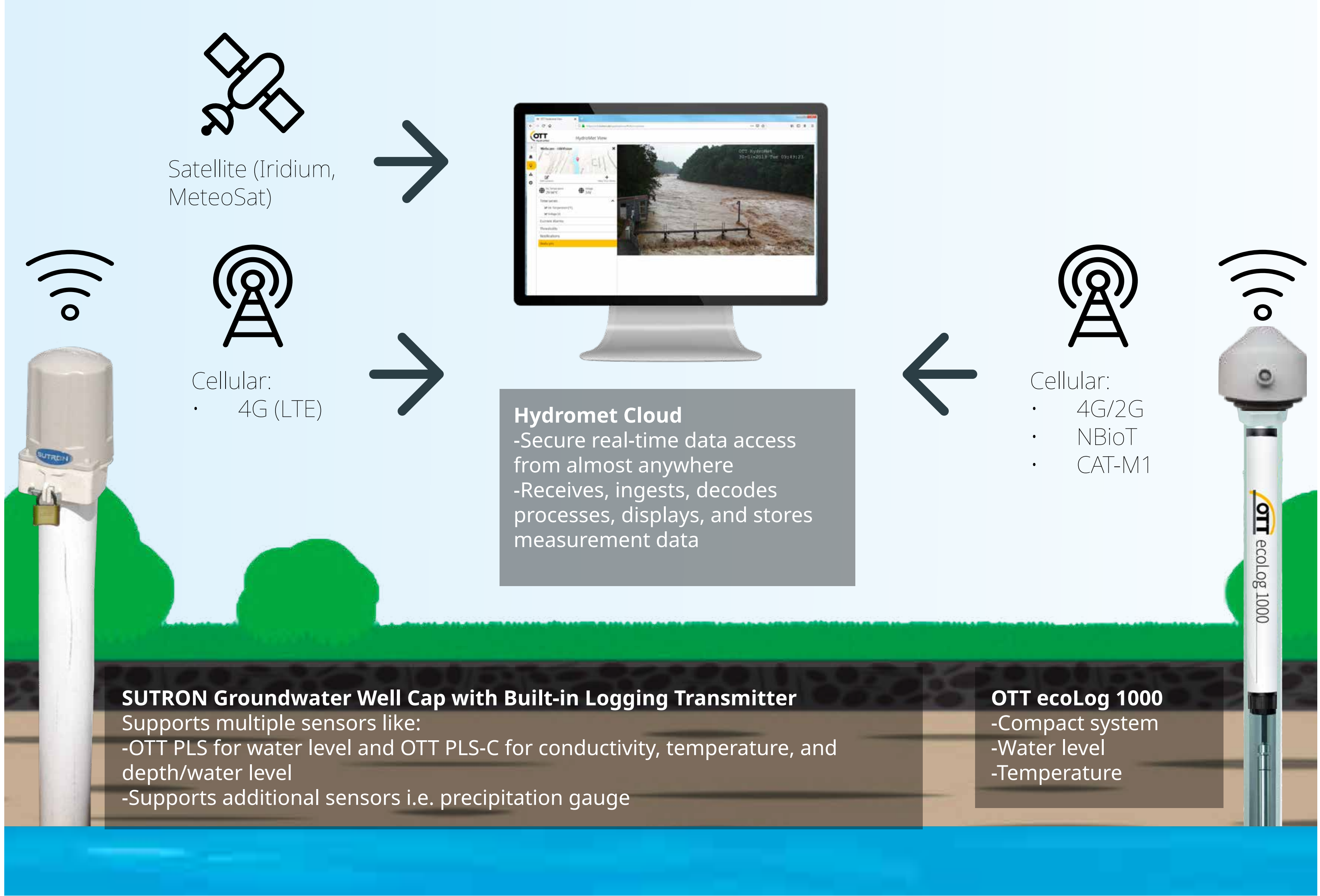


Groundwater
Well Cap



SUTRON
XLink 100/500

Complete Groundwater Monitoring Solution



Remote Measurement

Remote groundwater monitoring gives you access to data when you need it most and saves trips to the field, via multiple remote communication techniques. These instruments deliver accurate measurements with a reduced number of components for a straightforward integration.

All-In-One System



OTT ecoLog 1000

All-in-One Solution Offers:

- Self-contained, cellular groundwater level logger for water level and temperature.
- Integrated two-way mobile communication and integrated Bluetooth Low Energy (BLE)
 - Robust design with ceramic pressure cell for level measurement
 - Configurable alarm management for threshold monitoring
 - Support for local operation mobile devices, smart phones, and tablets operating with iOS, Android, Mac or Windows 10
 - Supports data transmission via 4G/2G cellular using FTP, HTTP, HTTPS or SMS
 - Version for NBIoT /CAT-M1 available
 - Integrated programmable datalogger, to store up to 1,000,000 measurements, and internal battery

Customizable System



OTT PLS Pressure Sensor

+



Groundwater Well Cap

+



SUTRON XLink 100/500

Customizable Solution Offers:

- Pair with OTT PLS or OTT PLS-C
- For monitoring water level, depth to water, pressure, temperature and conductivity (PLS-C)
 - Integrates with ease into the XLink 100 and Xlink 500 dataloggers
 - Uses standard communication protocols like SDI-12
- Pair with Groundwater Well Cap
- Well Cap has built in XLink logger/transmitter
 - Leverages power and reliability of XLink logger family into self-contained package
 - Support for local operation through smartphone and PC
 - Capable of measuring sensors over SDI-12, 4-20mA, and RS485
 - Low power with integrated 1.5 aH battery for long term reliable operation through remote communication via mobile and Iridium
 - Supports data transmission via 4G/2G cellular using FTP, HTTP, HTTPS, SMS, or TCP/IP

View and Manage Remote Data



LinkComm Software

Configuration System - LinkComm

- Program used with ecoLog 1000 and XLink 100/500 to view and configure groundwater equipment
- Runs on Windows 10 PC, Mac, iPhone/iPad, and Android platforms

With LinkComm you can:

- View current status and measurement data
- Enter observer values
- Download data and graph the log
- Create and save configurations for every station



Hydromet Cloud

Web-Based Data Visualization - Hydromet Cloud

- Provides secure real-time data access from almost anywhere in the world via HydrometCloud.com and the Hydromet Cloud Mobile App

- Has backend infrastructure to receive, ingest, decode, process, display, and store measurement data from nearly any remote Hydromet monitoring station via a cloud-based data hosting platform



HYDRAS 3 NET

Web-Based Data Visualization - Hydras 3 Net

- Provides the possibility to offer network management for ecoLog 1000 networks. Monitor and control the status of the network anytime and from anywhere
- Practical, user-friendly software structure for the collection, processing, interpretation, evaluation and transmission of measured data from sensors and stations
- Includes alarm management and processing

Continuous or Manual Measurement

We offer the following solutions if automatic data recording is not in consideration:

All-In-One System



OTT CTD and OTT
Orpheus Mini

- For continuous monitoring depth to water, water level, and temperature
- Available with high accuracy temperature or conductivity measurement
- Integrated programmable datalogger, stores up to 500,000 measured values

Manual Measurement



Contact Gauge

- For monitoring depth to water, temperature, and conductivity
- Drum held by a stable frame and easy to carry
- Available with display for output values, and suitability for depth profile measurement
- Measuring tape lengths include 15 ... 750 m (KL010), 25 ... 500 m (KL010-TM), and 30 ... 500 m (KL010-TCM)

Selection Table

	OTT ecoLog 1000	OTT ecoLog 800	OTT CTD	OTT Orpheus Mini	OTT PLS-C	OTT PLS	SUTRON XLink 100/500
Parameters							
Water Level/Depth	X	X	X	X	X	X	
Conductivity		X	X		X		
Temperature	X	X	X	X	X	X	
Remote Communication							
Cellular: 4G/2G	X						X
Cellular: 3G/2G		X					X
Cellular: NBIoT / CAT-M1							
Satellite: Iridium							X
Output/Data Protocols							
SDI-12					X	X	X
RS485 using SDI-12					X	X	X
4...20mA						X	X
Local Wireless Communication	X	X	X	X			X
HTTP, FTP, SMS	X	X					X
HTTPS (TLS 1.2)	X						X

Service

For every instrument purchase, we offer configuration recommendations and standard configurations with order numbers which can be added on to any order, for our staff to handle set-up before the instrument is shipped.

We also offer complete system installation and maintenance on-site by our certified experts, with optional on-site training.

Insights for Experts

For more information, please contact

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