GROUNDWATER MONITORING

SELECTION GUIDE

OTT HydroMet

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
- 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

OTT ecoLog 1000

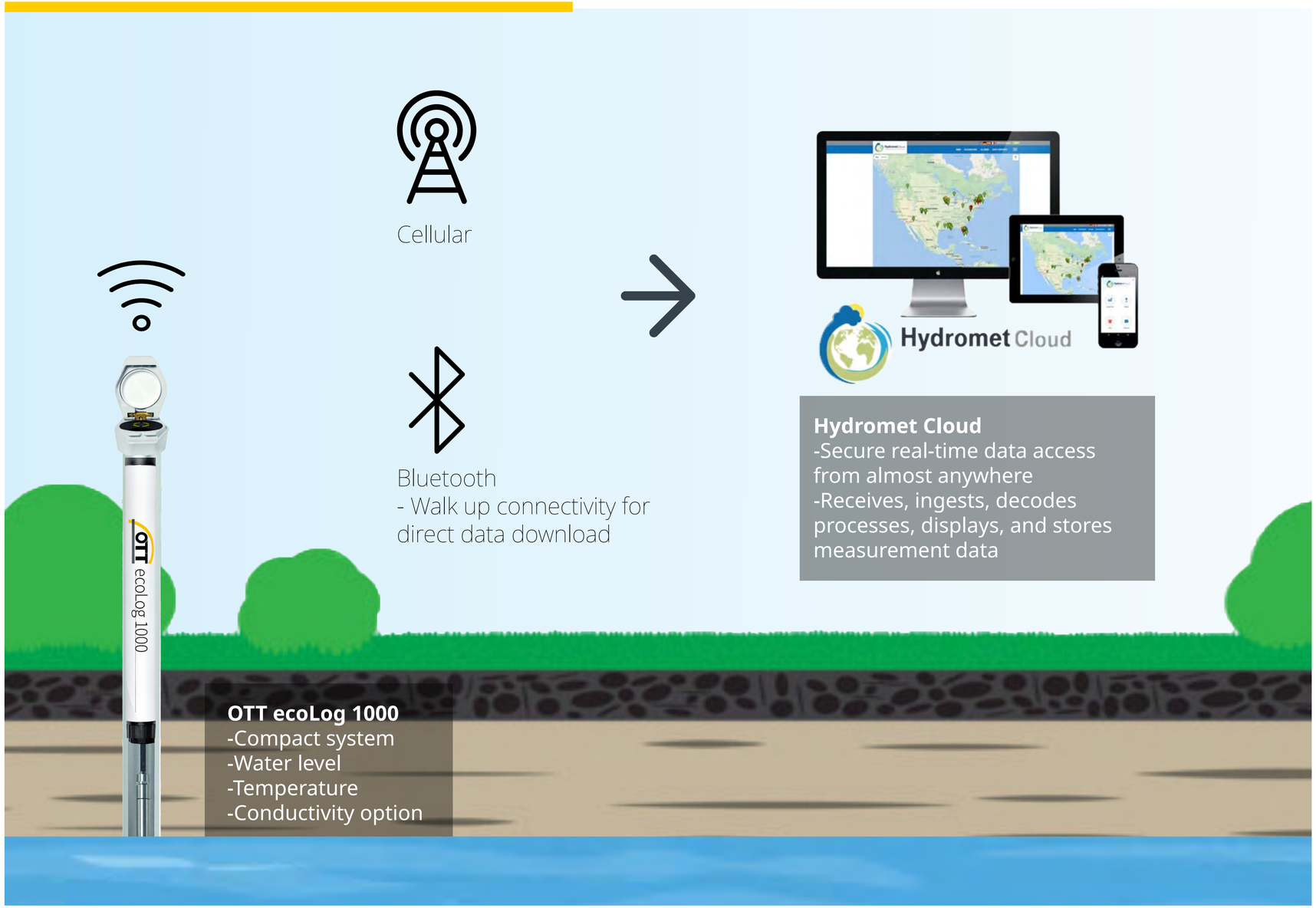
OTT CTD and OTT Orpheus Mini

OTT PLS 500

Contact Gauge

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

Self-contained, cellular groundwater level logger for water level, temperature and optional conductivity measurements

- 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 cellular using FTP, HTTP, HTTPS or SMS
- Version for CAT-M1 / LTE-M available
- Integrated programmable datalogger, to store up to 1,000,000 measurements, and internal battery

Customizable System

OTT PLS 500

+

SUTRON XLink 100/500

Pair with OTT PLS 500 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
- Internal humidity and position sensors with the OTT PLS 500 to remotely monitor probe health

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, 25 … 500 m, and 30 … 500 m

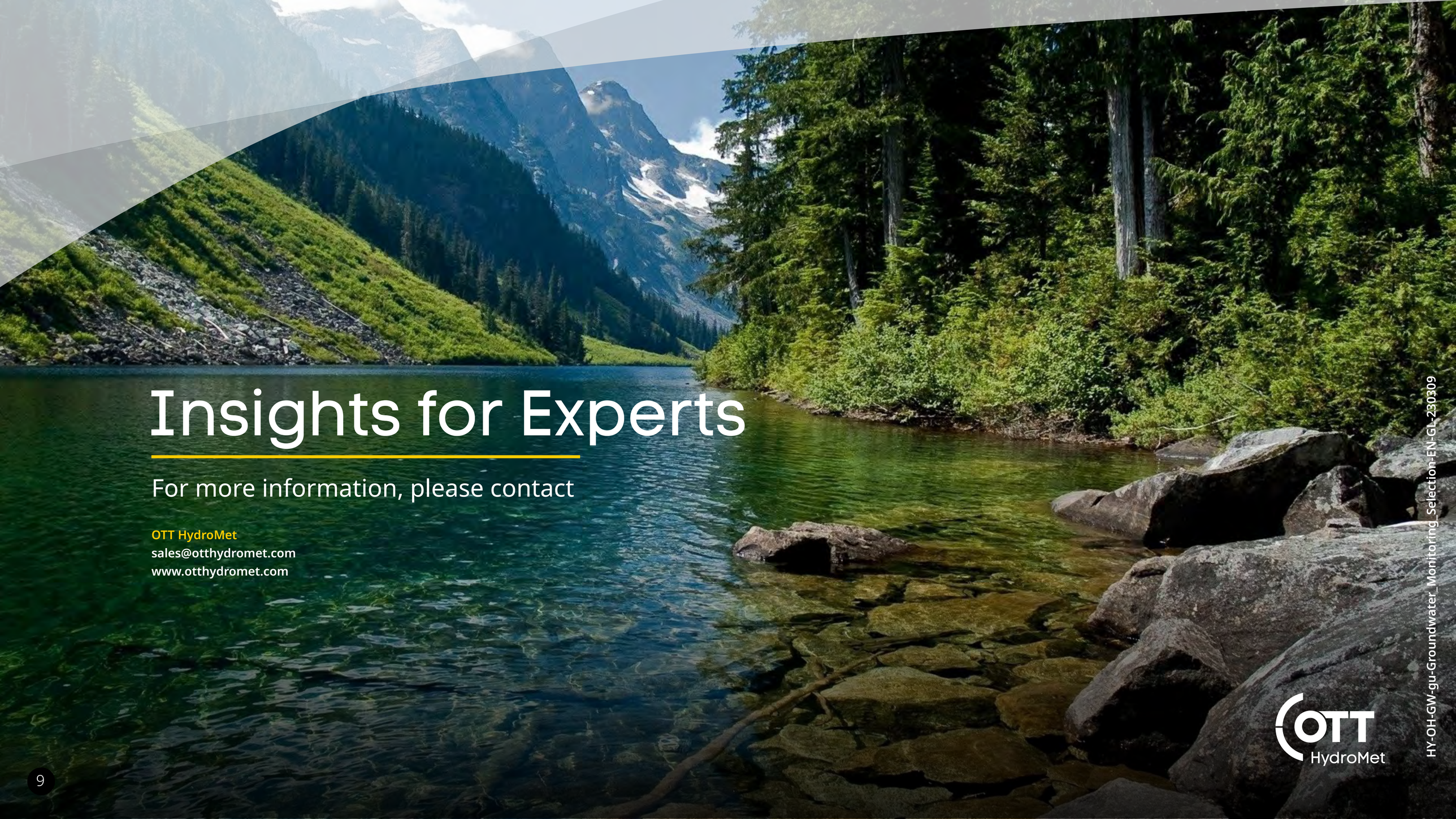
Selection Table

	OTT ecoLog 1000	OTT CTD	OTT Orpheus Mini	OTT PLS-C	OTT PLS 500	SUTRON XLink 100/500
Features						
Water Level/Depth & Temperature	x	x	x	x	x	
Conductivity	x (optional)	x		x		
Internal Humidity Sensor	x				x	
Position Sensor					x	
Cellular	x					x
Satellite: Iridium						x
All in-well solution	x	x	x			
Drive up data download	x	x	x			x
High accuracy	x	x	x	x	x	
Output/Data Protocols						
SDI-12 & SDI-12 using RS-485				x	x	x
Modbus RTU					x	
Local Wireless Communication	x	x	x			x
HTTP, FTP, SMS	x					x
HTTPS (TLS 1.2)	x					x

Service

Our certified experts partner with customers to provide trusted support:

- **For every instrument purchase, we offer system configuration and testing**
- **Technical support by phone or email**
- **Regular training sessions at OTT HydroMet locations**
- **Customized solutions for large or complex projects**
- **Complete on-site system installation, maintenance, and training.**



Insights for Experts

For more information, please contact

OTT HydroMet
sales@otthydromet.com
www.otthydromet.com

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