

A scenic landscape photograph of a sunset over a body of water. The sky is a mix of purple, blue, and orange, with the sun low on the horizon. Three large, dark trees are silhouetted against the bright sunset, their reflections clearly visible in the calm water. In the background, there are low mountains or hills. The overall mood is serene and natural.

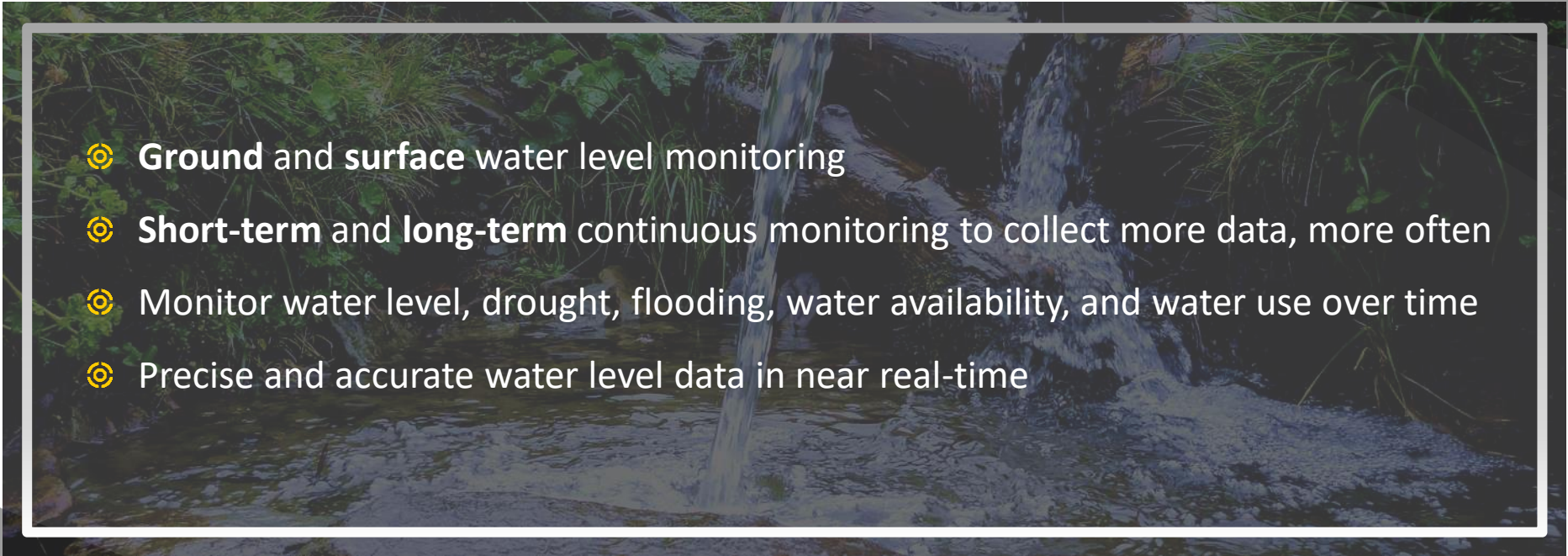
Introducing the OTT PLS 500

Why the OTT PLS 500?

The OTT PLS 500 is the next generation water level monitoring solution that leverages smart sensor capabilities providing confidence that your data is accurate.

Building on years of experience with the robust and accurate OTT PLS, the PLS 500 adds innovative metadata and internal sensors to remotely verify device performance providing peace of mind for long term deployment.

APPLICATIONS FOR THE PLS 500

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- 🌀 **Ground and surface** water level monitoring
 - 🌀 **Short-term** and **long-term** continuous monitoring to collect more data, more often
 - 🌀 Monitor water level, drought, flooding, water availability, and water use over time
 - 🌀 Precise and accurate water level data in near real-time

BUILDING ON A STRONG FOUNDATION

For years, the OTT PLS has been a trusted customer favorite for accurate water level and temperature measurements.

- ✓ Robust ceramic pressure cell
- ✓ 904L stainless steel housing resistant to sea water
- ✓ Vented pressure probe to compensate for atmospheric pressure
- ✓ Auto compensation for temperature effects on water density
- ✓ Simple setup and integration

NEXT GENERATION WATER LEVEL SOLUTION



Introducing the OTT PLS 500 – a smart pressure level sensor. Building on decades of experience with the OTT PLS, the PLS 500 has been enhanced with new features including:

- † Standard communication interfaces: SDI-12 and RS485 (via SDI-12 and Modbus RTU)
- † Internal computations on high frequency measurements allowing the output of statistics such as averages
- † Derived parameters such as discharge measurements
- † Remote data verification via QA/QC and metadata flags
- † Internal position and humidity sensors

KEY FEATURES

- High accuracy vented pressure transducer
- Smart sensor features
- SDI-12 and Modbus communication protocols
- SDI-12 and RS485 interfaces

Custom ordered
cable lengths

Easily removable cap,
enabling simple maintenance

High quality materials, stainless steel 904L

Robust, overload protected
ceramic pressure cell

Advanced microprocessor,
allowing for complex internal calculation

BENEFITS OF SMART SENSORS

The OTT PLS 500 includes built-in QA/QC and metadata to verify sensor performance and validate your data remotely, giving you confidence that your data is accurate.

Data Processing



Internally convert high frequency (4Hz) measurements to statistics such as computed averages, minimum/maximum levels, and instantaneous values over user defined intervals, enabling greater information reporting and eliminating manual data post-processing/analysis.

Discharge Calculations



Automatically calculate discharge from either a user defined rating table or ISO 1100-2 exponential formula set-up via SDI-12 commands. Minimize the need for data post-processing by directly outputting discharge from a trusted level sensor.

Position Sensor

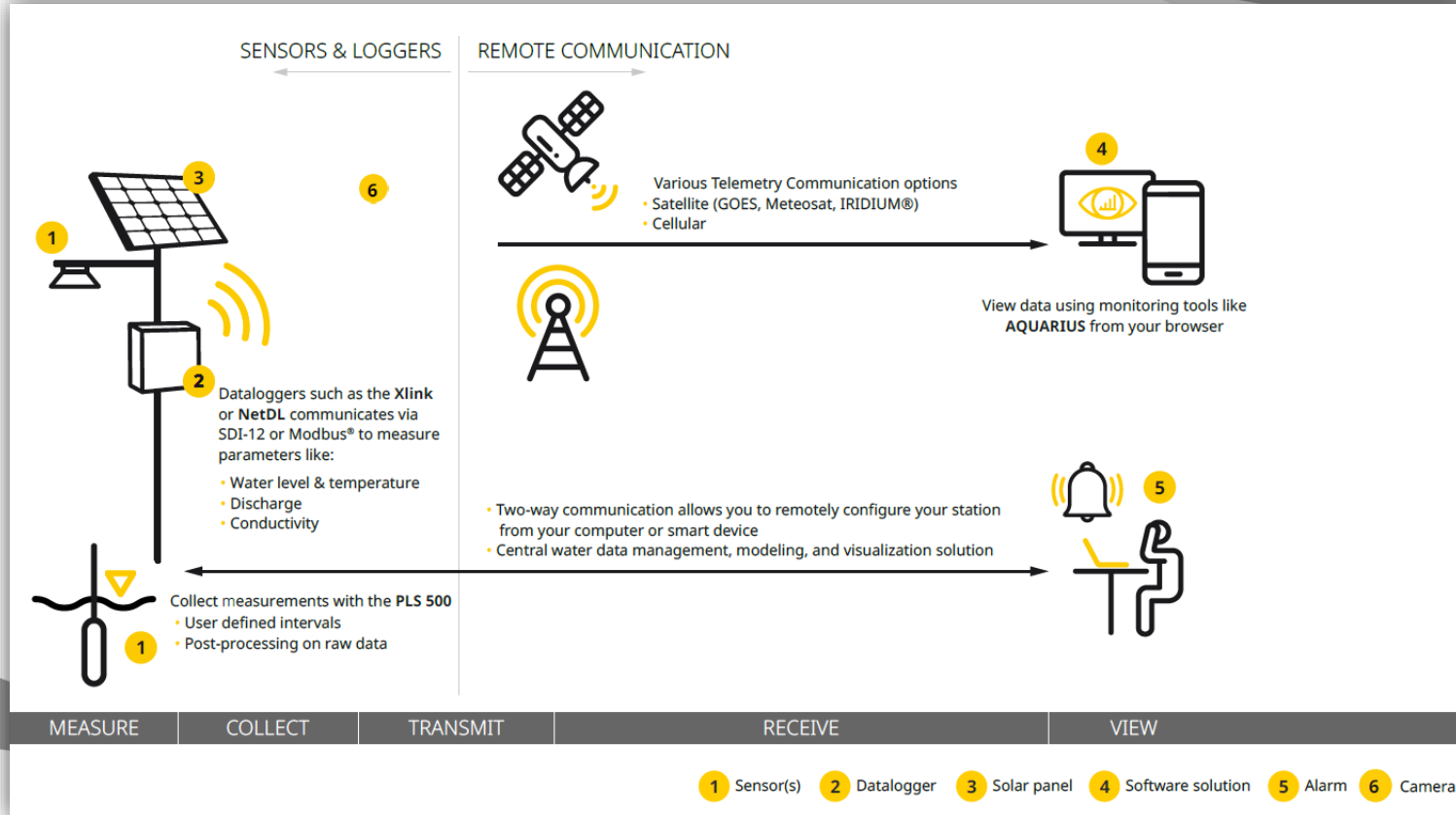


Remotely monitor probe movement in the field with an internal inclinometer, enabling warnings if sensor position has changed due to in-stream events via automatic status flags or direct measurement.

Internal Humidity Sensor



The integrated internal humidity sensor outputs automatic status flags or direct humidity measurements to help you understand if condensation may have formed, impacting your pressure measurements.



USED BY



Municipal, state, and federal government agencies



Water resource managers, scientists, and technicians



Universities and research centers



Consultants and engineers



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