

# OTT Water Level Logger Used in Small Irrigation Channels in Valencia, Spain

## Challenge

The irrigation sector in the Valencia area was forced to start measuring the levels in their channels due to updated regulations. For this an inexpensive, discrete and easy-to-install system was required.

## Solution

The OTT systems incl. ecoLog 500 sensors measure the water level every 15 min and transmit the data to the Basin servers every 3 days. The basin then applies a rating curve and converts the levels in flow.

## Benefits

The long battery life of the ecoLog 500, the discrete installation and the low costs compared to other suppliers provided all the customer needed. Also, .mis files can be integrated by the basin, making it easier.



**“The Basin gets the measurements reliably and the customers fulfill the new regulations.”**

*Patrick Simon, Sales Manager, OTT HydroMet, Spain*

# Project Description

The irrigation sector in the Valencia area was forced to start measuring the levels in their channels. For this a simple system was required and a very discrete installation needed due to high chances of vandalism and low budgets available from the customer. The Ott HydroMet solution complied with their needs.



## Task of the sensors

The OTT HydroMet systems distributed in Valencia are measuring the water level every 15 minutes and transmit the data to the Basin servers every 3 days. The Basin then applies a rating curve and converts the levels in flow.

## Components of the monitoring solution:

- OTT ecoLog 500, stainless steel tubes and top caps provided by OTT HydroMet Spain
- Installation and SIM card provided by the installer
- FTP server and level-flow conversion provided by the Basin

## Why did the customer choose our solution?

The customer was afraid of possible vandalism, so they discarded all solutions that included solar panels or visible components. Also they were convinced by the long battery life of the ecoLog 50 and low overall costs of the system compared to other suppliers. It provided all they

needed and was easy to install. Typically the complete installation and setup of such systems takes half a day only.

Other similar systems, which were deployed by OTT HydroMet have worked maintenance-free for over 3 years now and will continue to work for more years - without any battery change.

Another benefit was the possibility, that .mis files can be integrated by the Basin, making it easier for them to process the data.

## Timeline of the project implementation

This was not a single project, but several smaller ones in the same area a sector.

## Conclusion

The Basin gets the measurements reliably and the customers fulfill the new regulations.

In future, the new ecoLog 1000 also providing .csv can be an alternative.





# Technologies used



## OTT ecoLog 500

### Water level logger

Water level sensor with built-in data-logger for surface and groundwater applications

# About us

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OTT HydroMet helps water resource professionals generate reliable data throughout the entire water cycle. We go beyond simply providing solutions by partnering with our customers in designing effective answers to the challenges they encounter in their vital role of monitoring the world's water.

Proudly formed from six separate companies (OTT, Hydrolab, ADCON, Sutron, Lufft and Kipp & Zonen), OTT HydroMet offers the combined strength and expertise of leaders in the water quality, quantity, telemetry and meteorology fields and over 140 years of experience in environmental measurement.



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