

# Automatic hydrological station

## RIVIA



### Main features

- Robust and compact
- Automatic
- Energy self-sufficient
- Quick and easy to install
- Waterproof connection
- Numerous sensors can be added

**RIVIA** is an automatic hydrological station for measuring water levels. Self-sufficient in energy and automatic, it offers a solution for the most remote areas and withstands extreme climatic conditions. Easy to install, it can be fitted with a wide range of sensors!

### Robust and autonomous

Its solar panel and battery provide the station with the energy it needs all year round. Thanks to its waterproof connections and perfect energy autonomy, RIVIA can be installed in complex environments.

### Easy to install

**RIVIA** is easy to install on a bridge or bank. Numerous mechanical solutions are available for mounting the station and hydrological sensors. The P4-100 datalogger or electronic heart of the station is

installed in the solar generator box.

**RIVIA** is delivered pre-configured, making field installation much easier.

PULSONIC can supply a multi-operator SIM card for data communication.

### Sensors

**RIVIA** is equipped with sensors specially designed to accurately measure water level in streams.

Two sensor options are available: a radar sensor and a piezometric sensor.

A flow sensor can complete the configuration.

In addition to these sensors, **RIVIA** offers the option of adding other sensors. (rain gauge, hygrometer and indoor air temperature sensor...)

### Flexible

This flexibility enables the RIVIA hydrological station to be adapted to specific monitoring and data collection needs, providing a versatile and complete solution for the study of watercourses and water resources.

### Radar sensor for water level



#### LX-80 (SDI-12)

Resolution	0.5 mm
Accuracy	±2 mm
Output	SDI-12
Measurement angle	5°
Frequency range	W-band 77-81 GHz
Connector IP class	IP 68

### Piezometric sensor

#### DSP 5000 (SDI-12)

Measuring range	350 mbar at 70 bar
Long-term stability	0.05% FS/year
Accuracy	±0.1% FS
Response time	1s
Technology	Piezoresistive



### Datalogger P4-100



### Solar generator box

#### Solar boxes and batteries

Material	Cast aluminium
Dimensions (Europe /Tropical)	264x300x300 / 264x310x300 mm
Integrated solar panel technology	Amorphous silicon
NiMh battery	6V 6Ah
Lead-acid battery	6V 12Ah



«Europe»



«Tropical»



[WWW.PULSONIC.COM](http://WWW.PULSONIC.COM)



#### PULSONIC

48, rue de Versailles 91400 Orsay France

Tel : +33 1 64 46 34 10 | Fax : +33 1 64 46 25 22

Email : [info@pulsonic.com](mailto:info@pulsonic.com) | [www.pulsonic.com](http://www.pulsonic.com)

SAS with a capital of 70000€ | RCS : Evry B 329 221 980

