

NEW GENERATION OF WEATHER STATIONS



STATIONS WITH NEW TECHNOLOGY

The New Generation of Weather Stations are suitable for applications as research and agriculture projects.

It consists in a low cost equipment with adjustable settings and new technology for data recording and processing.

It differs from the previous generation due to its more advanced configurations, which provide efficiency on data record and collection, and more flexibility to the user for downloading data in a self-reliant way.

Besides, the installation allows simple systems structuring to assist low cost projects.

MORE SELF-RELIANCE FOR USERS

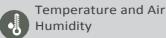
For a more convenient operation of the weather station, as an option, the new generation products allow the user to collect the station's data, downloading it on the field where installed.

This option offers more self-reliance to the users, since choosing the USB port installation on the new generation weather station brings you two possibilities to make the project more cost-effective:

- Data downloading through direct communication;
- In-field battery charging.

In addition, selecting the new generation weather station monitoring sensors is completely configurable. Users can choose the sensor's combination according to their necessities.

The available sensors to the new generation of weather stations are:















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/agsolve



The new generation weather of stations brings to the market a flexible and independent use proposal, ideal to agrometeorology projects and meteorological researches at universities, in its meteorological monitoring version, and ideal to limnimetry on dam and rivers monitoring, with the level monitoring version.

MORE EFFICIENCY AND RELIABLE SYSTEMS

More technical and scientific, the new generation of weather stations comply with all the World Meteorological Organization (WMO) and Food and Agriculture Organizations of the United Nations (FAO) specifications, offering the same previous sensor's accuracy in a Standard system which offers a data package and ready-to-use programs in order to help the final users on data viewing.

SPECIFIC DATALOGGERS

The new stations dataloggers have two models:



DataLogger for Level Monitoring



DataLogger for Meteorological Monitoring

SUPPORT SYSTEMS

For more convenience on user support, in the front side of the meteorological station dataloggers there is a fixed QR Code. This code contains the main information about the equipment.

It is very important that this code is not damaged or violated, since reading it through any QR Codes application (found freely on application distribution platforms both for Android and iOS), the user will be able to access data such as: purchase date, request number, type of communication, type of logger being used on the station, contained sensors, and other information required, so that we can provide a more suitable assistance to the product.





CHARACTERISTICS

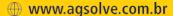
Sensors	Specifications
	Relative humidity accuracy: ±2 %
Temperature and Humidity	Temperature accuracy: ± 0.3°C
	Operation range of relative humidity: 0 - 100% relative humidity
	Temperature operation range: -40 to +125°C
Atmospheric Pressure	Pressure range: 10 to 1300 mbar
	Resolution: 0.065 / 0.042 / 0.027 / 0.018 / 0.012 mbar
	Accuracy 25°C, 750-1.100 mbar: -1,5 to +1,5 mbar
	Accuracy -20°C to +85°C, 300-1100 mbar: - 2,5 to 2,5 mbar
Radiation - PAIR Radiation – Global	Range: 400 – 700 nm
	Sensitivity: typical 5 μA for 1000 umol s-1 m-2
	Linearity: Maximum offset from 1% to 10.000 umol s-1 m-2
	Accuracy: Maximum absolute error upon sunlight is +/- 5% and
	typically +/-3%
	Sensitivity: Typically 75 μA per 1.000 W m -2
	Linearity: Maximum offset of 1% in 3000 W m-2
	Wavelength range: 400 to 1100 nm
Rainfall – with drain trap	Collection sector: 200 mm diameter +/- 0,3 mm in coated aluminium
	Tipping mechanism content: 0.2 mm
	Instrument sensitivity: 1 pulse/tipping
	Measurement range: 0 to 700 mm/hr
Rainfall – without drain trap	Collection sector: 200 mm diameter +/- 0,3 mm in coated aluminium
	Tipping Mechanism content: 0.2 mm
	Instrument Sensitivity: 1 pulse/tipping
	Measurement range: 0 to 700 mm/hr
	Collection sector: 214 cm ²
Rainfall – basic	Range: On a daily basis 0.00" to 99.99" (0.0 mm to 999.8 mm) / Total 0.00" to 199.99"
	(0.0 mm to 6553 mm)
	Accuracy: To rainfall rates up to 100 (4"/hr): $\pm 4\%$ of total or \pm 1 tipping
	(0.2mm/0.01"), which is greater
Level – Titanium 10mm diameter	Accuracy: \pm 0,1% FS, \pm 0,25% FS, \pm 0,5% FS available. Includes non-linearity, hysteresis, repeatability, and zero and interval settings. Note: \pm 0,1% not available with mV output
	Range: 10mWG to 350mWG
	Operation Temperature: -4°C to +50°C
Level – Ceramic, 25mm diameter	±0.1% optional ±0.25% FSO BFSL,
	Range: 10mWG to 100mWG
	Operation Temperature: -20°C to +60°C
Level – Stainless Steel and Silicon, 25mm of diameter	±0.06% optional ±0.1% FSO BFSL,
	Range: 0.5mWG to 100mWG
	Operation Temperature: -20°C to +60°C
Level – Navy Bronze, diameter of 25mm	Accuracy: 10mWG to 100mWG
	Range: <±0.25% FS BFSL (0.1% optional)
	Operation Temperature: -20°C to +60°C

SETTINGS

See how to set your station

WEATHER STATIONS 1 FIXED STATION 2 PORTABLE STATION B SENSORS 1 TEMPERATURE AND HUMIDITY 2 ATMOSPHERIC PRESSURE 3 RADIATION - PAIR 4 RADIATION - Global 5 RAINFALL – with drain trap 6 RAINFALL - without drain trap RAINFALL - basic 8 LEVEL - Titanium 10mm diameter (Accuracy: ± 0.1%, ± 0.25% or ± 0.5%) 9 LEVEL - Ceramic, 25mm diameter (Accuracy: ± 0.25% or ± 0.1% optional) 10 LEVEL - Stainless Steel and Silicon, 25mm diameter (Accuracy: ± 0.1% or ± 0.06%) 11 LEVEL - Navy bronze, 25mm diameter (Accuracy: ± 0.25% or ± 0.1% optional) С **BATTERY** 45 days with data reading every 60s and data recording every 30min 2 180 days with data reading every 60s and data recording every 30min 3 360 days with data reading every 60s and data recording every 30min DATA MANUAL COLLECTION 1





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