

Project identity:

Supply and installation of a state-of-the-art telemetric environmental station, as part of the project:

"Supply and installation of equipment for monitoring atmospheric and marine pollution" (ADAM: 25PROC016686092 2025-04-17) with the Contracting Authority being the Ministry of Environment and Energy.

Overview :

Type: Telemetric Meteorological – Environmental Station

Administrator : ELGO

Location : Nea Peramos - Kavala

Year : 2025



Important:

- The heart of the system is a MET.io unit
- Energy Autonomous
- Measurement of rain quality parameters
- Digital Sensors
- NB-IoT communication
- Cloud visualization
- Cloud Database
- 5 min recording rate
- Expandable to up to ten times the existing parameters

- ✓ Sensor control, temporary recording, and data transmission to the cloud are performed via our company's MET.io unit.
- ✓ This is one of the most modern meteorological and environmental stations in the country. It has a full range of sensors, all of which exceed **WMO** specifications.
- ✓ In addition to meteorological parameters, the station has a series of sensors for measuring the quality parameters of water from precipitation.
- ✓ Almost all sensors are digital output (modbus and SDI12), eliminating the electromagnetic noise errors of conventional sensors.
- ✓ None of the sensors have moving parts, which reduces maintenance requirements.
- ✓ Data transfer using modern NB-IoT technology, with extremely low cost and minimal energy requirements.
- ✓ The station measures a total of 44 parameters, whose time series are directly accessible in the cloud via the internet.
- ✓ Energy self-sufficient with a small 20 W solar panel.

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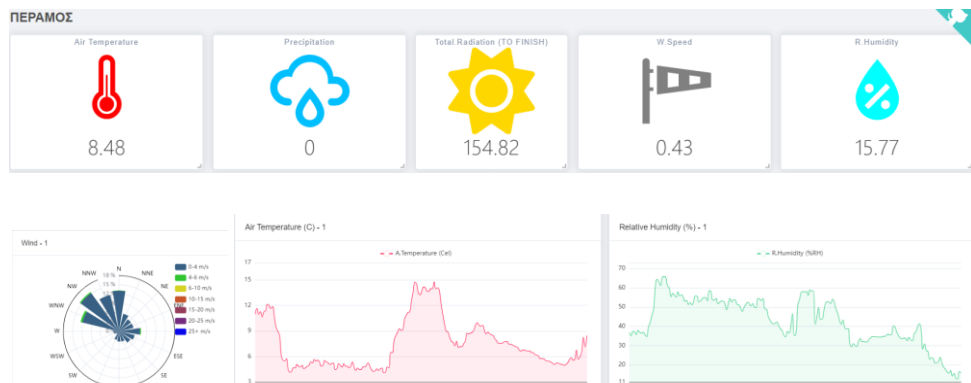
Use Case

RESEARCH GRADE ENVIRONMENTAL STATION



Measured parameters :

- Air temperature
- Relative air humidity
- Barometric pressure
- Total solar radiation
- Rainfall
- Wind speed
- Wind direction
- Far infrared radiation
- UVA radiation
- UVB radiation
- Soil moisture at 5, 15, 25, 35, 45, 55, 65, 75, 85 and 95 cm
- Soil temperature 5, 15, 25, 35, 45, 55, 65, 75, 85 and 95 cm
- Ionic salt concentration in soil and soil moisture at 5, 15, 25, 35, 45, 55, 65, 75, 85 and 95 cm
- Rain pH
- Rain turbidity
- Rain conductivity
- Rain temperature



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