



Project identity:

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

Supply of scientific instruments as part of the project entitled: **"Strengthening excellence initiatives at the University of Ioannina"**
Process ID: 7319a0dc-dc77-4212-9ed9-78af8bd38fd6

Overview :

Type : Telemetric Meteorological Station

Administrator : University of Ioannina –
Department of Physics

Location: University campus Ioannina

Year: 2025

Important:

- The heart of the system is a MET.io unit
- Energy autonomous
- Digital Sensor
- 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 stations in the country. It has a full range of sensors, all of which exceed WMO specifications.
- ✓ 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 40 parameters, whose time series are directly accessible in the cloud via the internet.
- ✓ Energy self-sufficient, powered by a small 20 W solar powered system.

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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, 10, 15, 25, 35, 45, 55, 65, 75, 85 and 95 cm
- Soil Temperature at 5, 10, 15, 25, 35, 45, 55, 65, 75, 85 and 95 cm
- Ionic Salt Concentration and Soil Moisture at 5, 10, 15, 25, 35, 45, 55, 65, 75, 85 and 95 cm

