

Multi-Purpose Monitoring Station

HYDROLOGY | METEOROLOGY | ENVIRONMENTAL MONITORING

General Description

An iBOX is the core of an hydrometeorological monitoring station. It combines data acquisition, data transmission and power management in a ready-to-be-deployed cabinet for outdoor installation.

The electric cabinet housing (for either wall or post mounting) of the iBOX includes an iRIS data logger, suitable power supply, surge protection, antenna, screw terminations and cable glands. The whole concept makes it very easy to deploy an iRIS data logger for any kind of monitoring application.

Flexibility for many Applications

An iBOX is a solution-specific product bundle that can be adapted in many ways to your requirements and application needs. Available choices include:

- Data logger: iRIS 270, iRIS UnderCover or iRIS 350FX
- Power supply: available options include solar or mains power, rechargeable back-up battery
- Electric cabinet: 400 x 300 x 150 mm thermoelectric cabinet with keylock, rain canopy and pressure valve (metal cases and other dimensions available on request)
- Sensor connection: screw-termination block or pre-cabled connectors
- Battery holders for either 7.2 Ah or 12 Ah 12 VDC SLA battery (battery not included)
- Brackets for either wall or pole mounting

Sample iBOX Configuration

A typical configuration consists of:

- iRIS 350FX data logger
- Omnidirectional small-scale helical antenna
- Solar powered complete with solar panel, battery charger, fuse, room for 12VD-C/7.2Ah SLA battery
- Screw terminations for simple sensor connection
- Outdoor housing complete with rain canopy, pressure valve, cable glands, key lock
- Pre-mounted on metal gear plate

Alternate configurations are available – please ask for details.

Benefits

- Pre-mounted monitoring station
- Tailor-made for your application
- Quick and easy to deploy

Applications

The iBOX is especially suitable for

- Agrometeorological Stations
- Hydrological Stations
- Environmental Monitoring Stations



Sample Illustration: iBOX-EU with TB4, external antenna and air temperature sensor



Technical Specifications

Data Logger	HyQuest Solutions iRIS Data Logger of your choice (Models: 270, UnderCover Pro, 350FX)
Power Supply	Various options: <ul style="list-style-type: none">■ Mains power■ Solar power■ Other power sources Operating Voltage: 12 VDC nominal; 9 to 28 VDC
Rechargeable Battery	Sealed Lead Acid (SLA) 12 VDC/7.2 Ah Option: SLA 12 VDC/12 Ah
Data Communication Options	Depending on data logger: <ul style="list-style-type: none">■ 2G/3G GPRS■ 4G Cat. 1 or NB-IoT■ Ethernet (cable connection)■ Iridium satellite
Ingress Protection	IP66 and rain canopy
Operating Range	<ul style="list-style-type: none">■ Ambient temperature: -20 to +60 °C■ Relative humidity: 15 to 90 %

Accessories



iRIS dataloggers and data modems:

- Robust housing
- IP over one or two channels of your choice: 4G with 3G fallback / GPRS, satellite, IoT
- I/O: analog, digital, SDI-12,



Modbus

- iLink software
- Telemetry or KISTERSdatasphere



datasphere:

KISTERSdatasphere is a global all-in-one solution for sensor data. The cloud-based

solution with easy-to-use viewing, alarming and integration features is the perfect basis for a range of applications - from simple sensor network management to environmental monitoring, infrastructure/asset monitoring, smart cities, internet of things, through to new data-based business models. More information in the web: datasphere.online



Vandalism Protection:

Metal frame protecting the cable connections/

glands. Can be perforated to allow direct insertion of cables into mounting pole.

Please ask for details.

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