



Presentation

Complete system for the continuous monitoring of gamma radiation with a fast response capacity in the detection and identification of activities, even of very low levels of artificial radiation in the environment. It is a valid solution for environmental gamma radiation monitoring applications in air and water.

Versatile

Valid for multiple applications, both for fixed and mobile stations, thanks to its modular design.

Easy installation

Easy installation and very low maintenance. Conceived for its operation in any type of environment, even in the most adverse climatic conditions. Manufactured with hermetically sealed housing, IP65.

Autonomy

Great autonomy thanks to its reduced consumption, becoming unlimited with the use of solar panel and battery.

Communication

To access the stored information, the station has a LAN / Ethernet communication interface, GPRS / 3G and Wifi modem, DSL modem, RS232, radio or satellite.

Through these communication channels, we can access information about the station configuration, data stored in internal memory, perform maintenance operations and station status, etc.

Storage

Internal memory with capacity for more than 5 months of spectrum data in 10 minute mode and 5 years of dose rate.

Configurable sampling times (two), from 1 min to 24h.

Options

The station is available with various types of detector according to the needs: NaI (TI), or LaBr3 (Ce) in various detector sizes. Additionally, it incorporates a GM tube for dose rates up to 10Sv / h.

Technical characteristics ARGUS

Description

Fixed or mobile station
Modular design
Easy installation
Low maintenance
Great autonomy
LAN / Ethernet communication
Measurement of gamma dose rate ($\mu\text{Sv} / \text{h}$) and activity (Bq / m^2)
Automatic isotope identification (configurable)
Geiger-Müller (GM) tube for high dose

Range

Measurement range	10nSv / h to 100 $\mu\text{Sv} / \text{h}$
Power range	30 KeV to 3 MeV
Sampling times	1min to 24h
Precision	10%

Detectors

NaI(Tl)	3"x3" o 2"x2"
LaBr3(Ce)	2"x2" 1.5"x1.5" or 1"x1"
Option	Geiger-Müller (GM) tube
Resolución (Cs137)	7% NaI(Tl) 3.5% LaBr3(Ce)
MCA	eMorpho (BridgePort Instruments)

Options

Support	Tactical support with solar panel
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Communications

LAN/Ethernet
4G
RS232/RS485
Radio (Optional)
Satellite (Optional)

Channels

Número de canales	2048
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Storage

Internal memory	Up to 5 month spectra (10 min) 5 years dose rate (10 minutos)
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Electrical Features

Power supply	12VDC (nominal)
Consumption	2.1W
Batería de respaldo	5-20 días
Option	Solar panel
Operating temperature	-40°C a +60°C

Dimensions

Case	IP65
Diameter	105mm
Height	520mm
Weight	2.5Kg

