MP-AIR

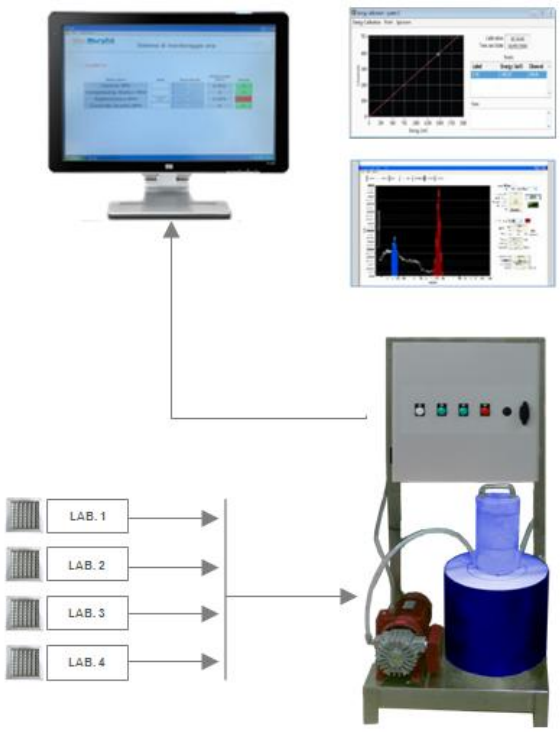
MEASUREMENT SYSTEM FOR THE AIR CONTAMINATION

Computerized system that allows the monitoring of the concentration of radioactivity in the air through a sampling system
The air is drawn in rotation from different points, measured by a multichannel analyzer able to discriminate the energy spectrum.

Can be selected different alarm thresholds for the different sampling points, so that for example the local radiochemical has a different threshold from local bunker cyclotron.

When the concentrator is present, the results of measurements can be integrated in the general control panel.

he system is composed of a spectrometric chain (cockpit measuring low background with a glass of marinelli thin wall) and a sampling system with the vacuum pump and flowmeter. The standard configuration has n. 4 measuring points.



TECHNICAL SPECIFICATIONS

- Multi-channel for the representation of spectrum
- Software for data acquisition, display and analysis of the spectra..
- Software for calibration in energy and efficiency
- Setting the measurement time for each room
- Graphical representation of historical data

OPTIONS

- Column for light detection unit
- Second viewer
- Relay output to drive other devices

LOCAL PC FOR THE ACQUISITION OF THE DATA

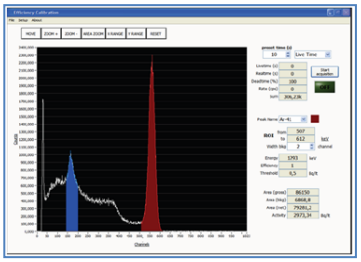
For permanent storage of data in the database on the local PC
All data are shared with the MP-CU via Ethernet
A dedicated software permits quantification of through the analysis of the peaks of interest. The data are sent to the MP-CU via Ethernet.

SAMPLING SYSTEM

The air is sampled from various rooms and sent to a glass of Marinelli placed inside a well shielded low background.
The system provides the standard configuration 4 measuring points and a washing circuit.
Inside the cockpit is introduced a probe sodium iodide in order to acquire a spectrum energy of the radioactivity present.
In the case of measurements above the predetermined threshold the system will repeat the measurement.

MULTI CHANNEL ANALYZER

The dedicated software allows the determination of the activity, and the concentration of each of the isotopes present through the analysis of the regions of interest. The data is sent to the PC via Ethernet.
The system includes a NaI (Tl) 2 "x 2" probe with high voltage generator, preamplifier, amplifier and analog circuit for the stabilization of the spectrum without the use of radioactive sources.
Software for data acquisition, representation and analysis of the spectra.
Software for the energy and efficiency calibration of the probe.



OPTION MP-PP

Group of additional sampling (in addition to 4 provided in the basic configuration)

OPTION MP-LD

Display option for MP-Monitoring system with display 17 "touch-screen.
Ethernet connection with MP-CU.

OPTIONS

MP-AL-CU	Luminous Column inclusive the support. LED lamps
MP-AR	Remote control that allows the service to control the system via Ethernet
MP-RL	7 programmable dry contacts to use alarms to interlock devices
MP-UPS	Allows saving of data system shutdown in the event of a power outage