

AirTrack-Mobile

α & β monitor

Description

AirTrack-Mobile, is a transportable Monitoring Station made of two sub-units, installed on a trolley for easy transport and operability. The AirTrack-Mobile is made of two Modules, an Alpha/Beta Continuous Aerosol Monitor with an optional a wide-range Gamma dose rate monitor, and a Meteorological Station. A compact collapsible mast for weather sensors mounting (3m when deployed) and integrated LTE/3G data modem completes the AirTrack-Mobile assembly.

The basic AirTrack-Mobile includes only the Aerosols Monitor unit, the other modules that are part of the AirTrack-Mobile may be added optionally, depending upon additional needs of the Client.

Accessories

- External Gamma Dose Rate Meter GDRM
- Meteo Station
- Battery set for 30 min autonomous operation

Features

- On-line alpha/beta spectrum acquisition and readout
- Automatic filter replacement depending on its contamination, possible damage or measurement time
- 3 months of autonomous operation
- Radon progeny and gamma background measurement/compensation
- Evaluation of alpha and beta artificial concentrations in air
- Evaluation of total collected activities
- Management of alert/alarm thresholds and trips
- Flow-rate measurement
- Measurement of pressure drop through the filter
- Inlet air temperature measurement
- Sampling head for outdoor operation
- Control of all AirTrack-Mobile operations
- Data transfer via LAN, USB and 4G/5G interfaces in the ANSI 42.42/EURDEP format
- Touch screen user interface

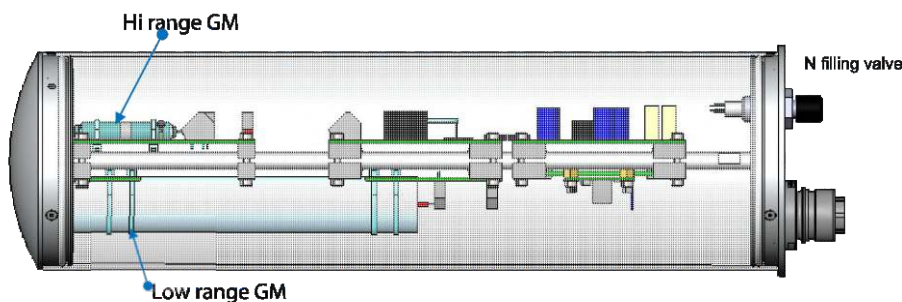
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Specification

Parameter	Value
Measurement ranges	<ul style="list-style-type: none"> - Alpha and Beta natural emitters: 10^{-1} to 10^5 Bq/m³ - Alpha long lived emitters: 10^{-2} to 10^5 Bq/m³ - Beta long lived emitters: 10^{-1} to 10^5 Bq/m³ - Alpha energy range: 2 MeV to 10 MeV - Beta energy range: 80 keV to 3 MeV - Radon and Thoron measuring range: 10^{-1} to 10^5 Bq/m³ with automatic Radon progenies compensation
Alarms	<ul style="list-style-type: none"> - Programmable thresholds for alpha and beta concentration alert/ alarm - Visual indicators
Detectors	<ul style="list-style-type: none"> - SIID Silicon Ion Implanted Detector with active area: 600mm² - Active gamma background compensation through additional dedicated SIID detector
Air flow-rate	2 to 6 m ³ /h
Air inlet temperature	from -40 to +70 °C
Filter type	Filter tape
Filter tape	<ul style="list-style-type: none"> - PTFE, (Glass Fiber, Cellulose - optionally) - 15 meters lengths, 50 or 60mm wide, 90 days autonomy

Gamma Dose Rate Monitor GDRM



Description

GDRM is meant for determining the dose rate that can be generated by accidental releases in NPP. GDRM is designed for indoor area and outdoor monitoring. GDRM has very low power consumption, compact dimensions and is lightweight. It is easy in operation and needs minimal operator's intervention. GDRM is energy-compensated in accordance with IEC 60846-1, which makes it suitable for measuring ambient dose equivalent rate $H^*(10)$.

Parameter	Value
Energy range	from 24.6 keV to 10MeV
Dose rate range	from 0.05 μ Sv/h to 5 Sv/h (up to 100 Sv/h)
Power supply	10 ÷ 30 VDC, 1.5W
Enclosure	Ø 100 x 400 mm
Weight	1.5 kg
Class	IP67