BALTIC SCIENTIFIC INSTRUMENTS

AMGRI
Automatic Monitor for Radioactive Aerosols
with automatic cartridge changer and on-line spectrometric analysis

Features

Main operational functions:

- Cartridge control (including Δp and inlet air temperature) and cartridges changing
- Flow-rate control and measurement
- Live spectrum acquisition
- On-line Spectra analysis and readout
- Pb-214 peak automatic compensation
- Evaluation of Iodine concentration in air
- System parameters set-up
- Two programmable thresholds (alert and alarm) for radiological events
- Intrinsic automatic control of system operation, machine failure alarm messages in case of equipment operational failure (i.e. mechanics or pneumatics failures)
- Built in test procedures
- Data communication

Setup parameters:

- Station identifier: identifier of the station
- Sampling Time: total sampling time (ST) for cartridge (in hours and minutes)
- Data period: data files issuing period
- Iodine Alert Threshold: alert trip point for Iodine concentration
- Iodine Alarm Threshold: alarm trip point for Iodine concentration
- Flow Alarm Threshold: flow-rate trip point for 'low flow' alarm (X.XX m^3/h).
- Flow Filter Threshold: flow-rate trip point for filter change (X.XX m^3/h).
- MCAs set-up: coarse gain, fine gain, shaping, threshold, HV
- Network: IP address, firewall, time synchronization

AMGRI is the State of the Art among Iodine Monitors, in terms of advanced design solutions and performances of the Gamma spectrometric measurement chain and cartridges changer mechanics.

It has the same functional and mechanical construction of the AMRA-Sr and Amra-Ge Aerosols Monitor; both equipment utilize the same gamma digital MCA.

The innovative unique use of a SrI2(Eu) crystal with its very low intrinsic background and very high photonic yield makes possible at a reasonable cost the implementation of an industrial grade equipment with laboratory grade performances on-line.

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AMRA α, ß, γ
Automatic Monitor for Radioactive Aerosols

Features

Main operational functions:

- Filter control (including Δp and air inlet temperature) and filters changing
- Flow-rate control and measurement
- Live spectrum acquisition
- On-line Spectra analysis and readout
- Gamma background compensation
- Evaluation of activities on filter and concentrations in air
- System parameters set-up
- Two programmable thresholds (alert and alarm) for radiological events on each measurement chain (Alpha, Beta and Gamma emitters)
- Intrinsic automatic control of system operation, machine failure alarm messages in case of equipment operational failure (i.e. mechanics or pneumatics failures)
- Built in test procedures
- Data communication

Setup parameters:

- Station identifier: identifier of the station
- Sampling Flow Rate: sampling flow-rate (X.XX m^3/h)
- Sampling Time: total sampling time (ST) for each filter (in hours and minutes)
- Data period: data files issuing period
- Alpha Alert Threshold: alert trip point for alpha concentration
- Beta Alert Threshold: alert trip point for beta concentration
- Alpha Alarm Threshold: alarm trip point for alpha concentration
- Beta Alarm Threshold: alarm trip point for beta concentration
- Gamma ROI Alert Thr.: ten ROI independent trip point set-up
- Gamma ROI Alarm Thr.: ten ROI independent trip point set-up
- Flow Alarm Threshold: flow-rate trip point for 'low flow' alarm (X.XX m^3/h).
- Flow Filter Threshold: flow-rate trip point for filter change (X.XX m^3/h).
- MCAs set-up: coarse gain, fine gain, shaping, threshold, HV
- Network: IP address, firewall, time synchronization

AMRA-Sr is the State of the Art among Aerosols Monitors, in terms of advanced design solutions and performances of the Alpha/Beta and Gamma spectrometric measurement chains.

It is a budget friendly alternative to its higher performance version AMRA-Ge equipped with electrically cooled HPGe detector.

The innovative unique use of a SrI2(Eu) crystal with its very low intrinsic background and very high photonic yield makes possible at a reasonable cost the implementation of an industrial grade equipment with laboratory grade analytical performances on-line.
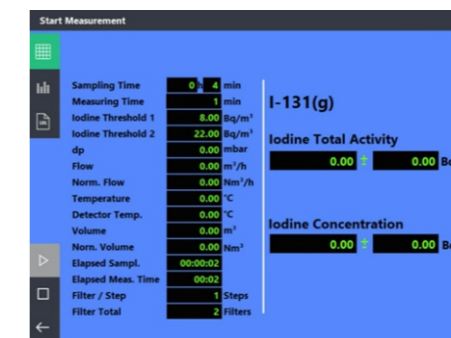
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