

One-Line Liquid Effluent Monitor : SCAN-EM Series



The SCAN-EM series monitors provide measurements of radio-activity in liquids and real-time calculation of activity levels for identified radio-isotopes. It is suitable for fast detection of radio-isotopes contained in liquid effluents from nuclear facilities.

SCAN-EM series are industrial grade and can be installed in a rough environment. Various types and sizes of detection probes are available, from standard NaI (sodium iodine) detectors to HPGe probes for high resolution spectrometry.

The internal radiation shields can be configured from 10 mm to 100 mm depending on the expected MDA (Minimum Detectable Activities).

Each SCAN-EM unit is configured according to your needs, taking into account the following parameters:

- Type and number of radio-isotopes to be monitored simultaneously Required MDA
- Effluent flow rate
 - Required response time Alarm thresholds
 - Local or remote data acquisition (IoT as option)
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Specifications

- Model:SCAN-EM Series
- Detector:Nal(Tl) or HPGe
- Energy range: 50 keV – 3 MeV (20 keV – 3 MeV as option)
- Measurement chamber volume: 0.5 L
- Shielding:10 mm to 100 mm lead
- Dimension (W × H × L) : 600 × 1000 × 800 mm
- Weight: 80 kg to 400 kg (depends on lead shield)
- Sample flow rate 30 – 100 l/min 30 – 100 l/min
- Power supply 230 V / 50 Hz
- Operational temperature 5 – 50 °C (-10 – 50 °C as option)

Features

- Suitable for real-time monitoring of radioactivity in liquids
- Sodium Iodine (NaI) and HPGe detectors available
- Spectrometry measurement with up to 8.192 channels
- MCS mode with simultaneous follow-up of 8 R.O.I. (Region of Interest)
- Dwell time selectable from 1 sec. to hours
- Very low MDA (Minimum Detectable Activity)
- Automatic gain correction for maximum stability during long measurements
- Automatic background measurement routine
- Internal pump with flow range adaptable from 1 L/min. to 60 L/min.
- Easy calibration procedure with pre-calibrated fluids
- Easy flush of measuring chamber (covered internally with PTFE)
- Direct conversion in Bq/litre for identified isotopes
- Selectable threshold alarms with analogue and digital outputs Record of key parameters: flow rate, temperature and pressure IoT option (automatic data transfer to the cloud)
- Transportable equipment (cart))



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