



ALMO 3



Alarm Monitor – Multi-Channel, Stationary Dose Rate Monitoring System with External Detectors

Field of Application

- Workplace and room monitoring, e.g. on hot cells
- System monitoring, e.g. in isotope production
- Ward and/or patient monitoring in nuclear medicine/radiation therapy
- Monitoring and selection in sorting boxes for radioactive waste
- Exhaust air monitoring
- Monitoring of test facilities in nondestructive material testing
- Warehouse monitoring, e.g. collection sites for radioactive waste

Performance Features

- Microcontroller-based measurement electronics
- Digital measurement value information on large-area, illuminated LC display
- Simultaneous measurement value display of all connected probes
- Measurement value display of the dose rate in $n/\mu/mSv/h$ with autoranging function
- Externally connectable detectors (GM counter tubes, NaI detectors) with integrated high voltage generation and electronics
- Automatic detector identification, calibration data are read out by the measurement electronics, allowing simple

replacement of the detectors

- Mixed operation of different detectors possible
- Detectors can be set up in a distance of up to 100 m from the measurement electronics via cable connection
- 2 freely definable alarm thresholds per probe
- Monitoring of the service life of the counter tube (%)
- Easy-to-operate measurement system with user guidance
- Ergonomically formed housing, can be used as desktop or wall housing
- 2 insulated switch outputs per probe (one each per alarm threshold)
- Different visual/acoustic alarm signaling units can be connected
- Serial data interface for data transfer and storage on external PC system
- Software for continuous dose rate measurement, including data storage

Technical Data:

Type: Alarm Monitor ALMO 3

Electronics: μ -controller-based measurement electronics connection of max. 3 detectors

Display: LC display 4 x 20 characters, with LED background illumination in continuous operation mode

Keyboard: Membrane keypad

Housing: 302 x 272 x 101 mm (W x D x H) can be used as wall or desktop housing

Power supply: 230 V, 50 Hz

Consumption: max. 60 W

Alarm: visual and acoustic, external alarm unit as an option

Temperature range: 0° C to + 50° C, 0 - 95% relative humidity

Interfaces: 2 insulated switch outputs per detector (max. 24 V, 1 A)
e.g. for 3-step signal lamp, in addition 1 sum output 1 RS 232 or RS 422 interface

Detectors

The following detectors can be used as standard:

Geiger-Müller Counter Tubes

Type 18 550 DE, measurement range approx. 1 μ Sv/h - 20 mSv/h

Type 18 509 DE, measurement range approx. 50 μ Sv/h - 1 Sv/h

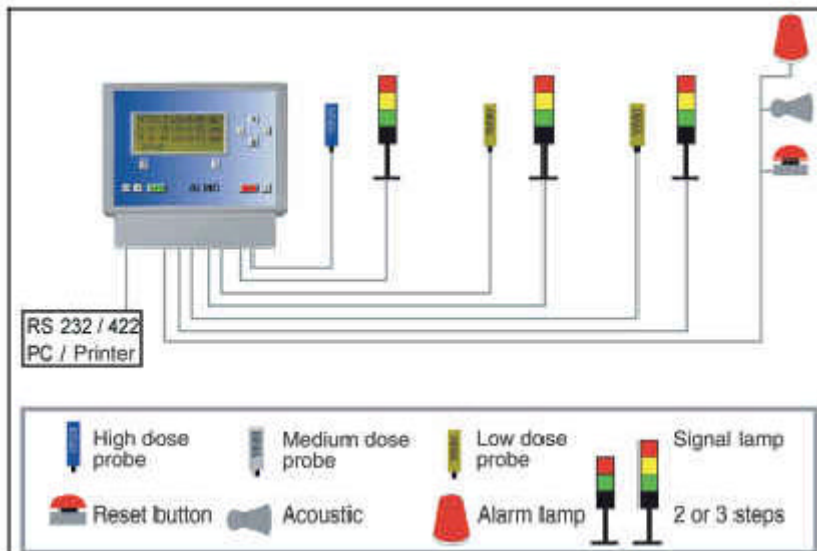
Type 18 529 DE, measurement range approx. 200 μ Sv/h - 10 Sv/h

Type 18 526/36 as pulse probes

Nal Scintillation Detector

Nal 1 x 1.5", measurement range 40 nSv/h - 2 mSv/h

Proportional Detectors and Neutron Detectors
on request



Example of a dose rate monitoring system with alarm units



ALMO-3 system for dose rate monitoring on a hot cell

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