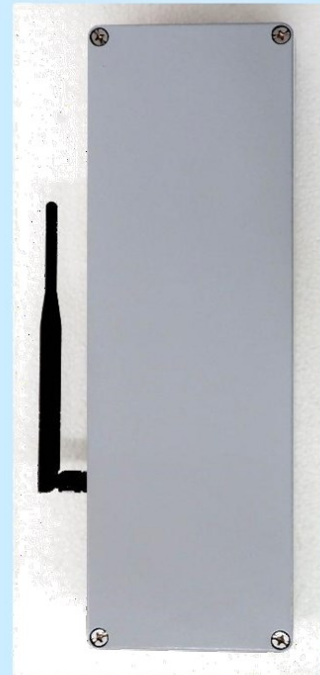
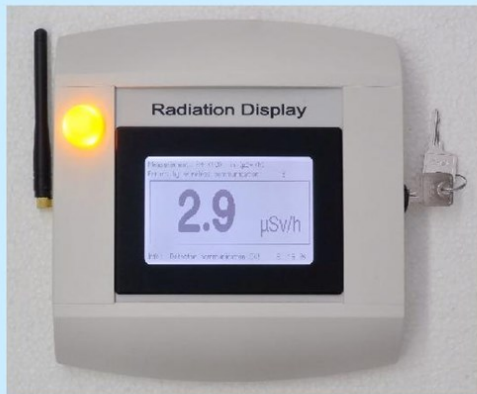


Wireless- Doserate- Measurement System RMon 2



Wireless working, fixed installable radiation measuring system, consisting of intelligent radioactivity detector SON41 and display unit AT-NG-L.

The system is used to survey and display the ambient equivalent dose rate $dH^*(10)/dt$ in the measurement range 0.1 $\mu\text{Sv/h}$ to 999 $\mu\text{Sv/h}$. The data communication is transmitted via radio. The system components are designed for continuous operation for 24 hours per day, 365 days per year.

Fields of application:

- Dose rate monitoring system for use in nuclear medicine
- Area monitoring (e.g. manufacturing of radionuclides, laboratories, nuclear power plants, or storage facilities of radioactive materials)
- Radiological evaluation of working places – Patients monitoring in the nuclear medicine

Features:

- Easy to use
- Wide measuring range: 0.1 $\mu\text{Sv/h}$... 999 $\mu\text{Sv/h}$
- Setting of the measurement unit and 2 alarm thresholds
- Large graphic display 240 x 128 Pixel / 96 x 60 mm with background lightning – measured value representation with a font size of 25 mm
- Widely visible warning light for the alarm thresholds (green / yellow / red) and also for system error
- Alarm indication by counting tube overload
- Wireless transmission of measured values up to 40 km (free view) and up to 500 m in buildings (depending on building conditions)

| Intelligent Detector SON41 | |
|--|--|
| Measurand: | ambient equivalent dose rate $dH^{*(10)} / dt$ (calibrated to Cs-137) |
| Detector: | Geiger-Mueller counting tube (optional without energy compensation) |
| Measurement range: | 0.1 > 999 $\mu\text{Sv/h}$ |
| Collimator: | internal (optional) |
| Energy range: | 40 keV ... 1.3 MeV |
| Sensitivity: | Depending on GM-tube 1.6 - 17 cps per $\mu\text{Sv/h}$ (related to Cs-137) |
| Power supply: | 100 – 240 VAC 50/60 Hz |
| Temperature range: | 0 °C ... + 50 °C |
| Data output: | RS232 - RS485 – Radio (selectively) |
| Radio transmission: | certified, proprietary 868 MHz protocol for european applications (optional 2,4 GHz by IEEE 802.15.4) transmission power: up to +25 dBm (315 mW) operating distance: up to 500 m (in buildings) up to 40 km (outdoors) |
| Dimensions (L x B x H): | 350 mm x 120 mm x 80 mm (without antenna) |
| Weight with / without collimator: | 5000 g / 2500 g |

| Intelligent Display AT-NG-L | |
|------------------------------------|---|
| Display: | Graphic display 240 x 128 Pixel Size: 96 x 60 mm |
| Font size: | max. 25 mm |
| Power supply: | 100 – 240 VAC 50/60 Hz |
| Data reception: | RS232 - RS485 – Radio (selectively) |
| Radio transmission: | certified, proprietary 868 MHz protocol for european applications (optional 2,4 GHz by IEEE 802.15.4) |
| Temperature range: | 0 °C ... + 50 °C |
| Dimensions (L x B x H): | 250 mm x 200 mm x 50 mm (with internal antenna) |
| Weight: | 1000 g |

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