

# AGM-02 Area Gamma Monitor



**AGM-02 Area Gamma Monitor is suitable for measuring ambient gamma dose equivalent rates from natural background up to 100 mSv/hr (10 rem/hr). It can be used as an area gamma monitor with local or remote indication in host systems.**

## Purpose

The AGM-02 Area Gamma Monitor is intended for the measurements of ambient dose rate equivalent in a range from the natural background up to 100 mSv/hr (10 rem/hr).

The AGM-02 can be used as part of a large monitoring system with remote centralized indication, or as an autonomous monitor, which provides the data indication locally at the place of measurement.

For various possibilities see the figure on next page.

The AGM-02 area gamma monitor's output can be customized for application in most of the common radiation monitoring systems based on different interfaces and communication protocols.

## Description

The AGM-02 monitor is equipped with a GM tube and a microprocessor controller with auxiliary circuitry, TFT backlight display, elementary keyboard and signalling parts; all elements are encapsulated in a waterproof case.

The signals coming from the detector are processed in the controller and compared with two programmable alarm levels adjustable by service PC software. Exceeding the alarm levels is signalled acoustically, optically on display, and by output relay signals. The measured values and the monitor status are displayed on the integrated local display with backlight and can be transferred via a standard RS-485 interface into the host system.

An alarm slave unit can be connected to the AGM-02 dose rate meter through potential-free switching contacts or the RS-485 interface.

## Main Advantages

- Compact monitor with integrated backlight display
- Two programmable alarm levels
- Possibility of direct alarm unit connection and direct connection to host system (see diagram)
- Use in indoor and outdoor locations

## Standards and Certification

**Type Approval Certificate** TCM 441/10 - 4788 issued by the Czech Metrology Institute

**EN 60846 – Radiation protection instrumentation** - Ambient and/or directional dose equivalent (rate) meters and/or monitors for beta, X and gamma radiation

**Electromagnetic Compatibility (EMC)**  
EN 55022/B, EN 61000-4-2#6, EN 61000-4-8, EN 61000-4-11

## Description



ASU-50 Alarm Slave Unit



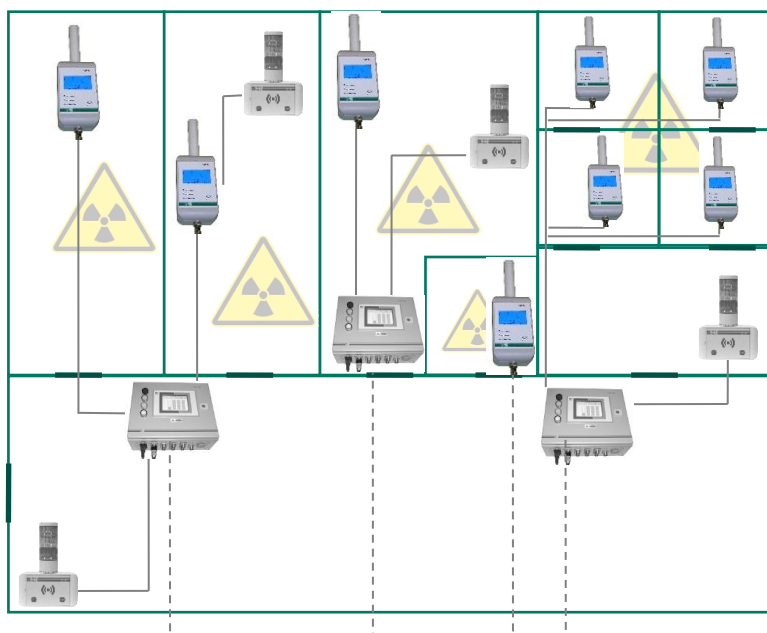
LZJ-22 Local Display Unit



AGM-02 Area Gamma Monitor



Controlled Area



## Specification

Measured quantity	ambient dose equivalent rate
Detector type	Geiger-Müller tube
Measurement range	1E-7 ~ 1E-1 Sv/hr (1E-5 ~ 10 rem/hr)
Effective measurement range	1E-6 ~ 1E-1 Sv/hr (1E-4 ~ 10 rem/hr)
Energy capability	50 keV ~ 1.5 MeV
Effective energy range	80 keV ~ 1.5 MeV
Operating temperature range	-25 ~ +50 °C (-13 ~ 122 °F)
Communication interface	RS-485
Dimensions (W x H x D)	90 x 280 x 50 mm (3½ x 11 x 2 in)
Power supply	9 ~ 33 VDC / 2 W
Weight	app. 450 g (1 lb)
Electrical protection	IP 65 (NEMA 4)

## Models and Accessories

Type	Description
K0982	AGM-02 Area Gamma Monitor
<b>Optional Accessories</b>	
K0982-53	Wall mounted holder (for detachable fixing of AGM-02 on the wall)
N/A	External operational check source
K0504-02	Adaptor with transducer (mains AC / 24 VDC; communication RS-485 / RS-232)
<b>Alternative Products</b>	
N/A	MDG-0X series Dose Rate Monitors (types vary by measurement range)
<b>Related Products</b>	
K0743	LZJ-22 Local Display Unit
K0832	ASU-50 Alarm Slave Unit
S0803	RMS Radiation Monitoring System
K0917	MDN-01 Neutron Dose Rate Meter

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