



VF NUCLEAR



NUCLEAR  
POWER PLANTS



WASTE  
MANAGEMENT



CALIBRATION  
LABORATORIES



RESEARCH  
CENTRES



INDUSTRY  
& MANUFACTURING

AGM-123

# HIGH DOSE RATE MONITOR



## MAIN ADVANTAGES

- High resistance to thermal, pressure and radiation conditions
- Uninterrupted measurement in accident and post-accident states of nuclear power plants
- Data can be transmitted to PAMS safety systems using analog signals and electrical relay outputs
- Data can be transmitted to standard RMS systems using a galvanically-separated serial communication interface

## PURPOSE

AGM-123 is designed for accident and post-accident measurements of high gamma radiation dose rates up to 100 kGy/h, like for example in nuclear power plants containments, reactor buildings, etc. It is also suitable for measurements in very harsh conditions during severe accidents, such as LOCA.

The monitor consists of a GD-23 high dose rate detector with an ionization chamber, a set of mineral-insulated cables for power and an output signal and a RPU processing unit with display and output interfaces for other nuclear power plant systems. All components of the device are resistant to the designed accident conditions.

The GD-23 detector contains a  $^{241}\text{Am}$  keep-alive radiation source to self-check the detector function.

When the monitor is used in a containment, any interconnection of the detector and processing unit must be secured by a hermetic gland. For accident usage, the mineral cables of the monitor are welded directly during the production.

## SPECIFICATION

Detector type	ionization chamber
Measurement range	1E-4 to 1E+5 Gy/h
Accident condition in the containment	LOCA
Accident condition outside the containment	
• temperature	from 5 to 55 °C
• pressure	from 70 to 106 kPa

## RELATED PRODUCTS

ASU-50	Alarm Slave Unit
RPU-04	Radiation Processing Unit
RPU-06	Radiation Processing Unit
RPU-12	Radiation Processing Unit
RDU-12	Radiation Display Unit



VF NUCLEAR

VF, a.s. Czech Republic

T: +420 516 428 611

E: sales@vfnuclear.com

[www.vfnuclear.com](http://www.vfnuclear.com)

Specification subject to change without prior written notice.

VF1810220033 / 04 / 2020-07-22