



VF NUCLEAR



NUCLEAR
POWER PLANTS



RESEARCH
CENTRES



INDUSTRY
& MANUFACTURING



NUCLEAR
MEDICINE

AGM-122

HIGH DOSE RATE MONITOR



MAIN ADVANTAGES

- High resistance to extreme 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-122 is designed for operational, accident and post-accident measurements of high gamma dose rates up to 200 Gy/h, for example in the vicinity of nuclear reactors, cyclotrons, etc. It is also suitable for measurements in harsh conditions during HELB accidents in nuclear facilities, such as the main steam collector break.

The monitor consists of a GD-22 high dose rate detector with an ionization chamber, a set of coaxial cables for power and an output signal and an 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-22 detector contains a ¹³⁷Cs 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.

SPECIFICATION

| | |
|-------------------|--------------------|
| Detector type | ionization chamber |
| Measurement range | 1E-6 to 2E2 Gy/h |
| Energy range | 80 keV to 10 MeV |

Accident conditions (detector)

| | |
|---------------|--------------------|
| • temperature | from 5 to 100 °C |
| • pressure | from 70 to 130 kPa |

Accident conditions (control unit)

| | |
|---------------|--------------------|
| • temperature | from 5 to 55 °C |
| • pressure | from 70 to 106 kPa |

RELATED PRODUCTS

| | |
|--------|--|
| ASU-50 | Alarm Slave Unit |
| RPU-04 | Radiation Processing Unit (no display) |
| RPU-06 | Radiation Processing Unit (with display) |
| RPU-12 | Radiation Processing Unit (bigger, with display) |
| RDU-12 | Radiation Display Unit |



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Specification subject to change without prior written notice.

VF2007220011 / 04 / 2024-11-21