

Audible & Visible Automatic Radiation Alert for Shielded Cabinet

AVARA/C is part of a complete range of BALTEAU NDT products dedicated to Safety, Measurements and Quality improvement.

An accurate monitoring of the radiation level in a controlled area is most of the time a legal obligation but also an essential measure in order to protect the people around.

The basic Safety principles of Radio protection (ALARA – As low as reasonably achievable) must always be followed when performing an exposure not only in the parameters selection, but also in the exposure settings.

AVARA/C is a radiation detector linked to a shielded cabinet allowing the operator to monitor closely the working area. As soon as the unit detects X or Gamma radiation, an audible and visible alert informs the operator that the zone where the AVARA is located is being irradiated.

AVARA/C is the unavoidable tool for an efficient control of a specific area in order to guarantee a maximum security to the operator and other people standing close to the working zone.

Adaptability

The AVARA/C is placed inside the room and connected to the access door. If the door is being opened while radiations are emitted, the detector will start the Alarm and the X-ray will be stopped. The AVARA/C meets the security principle asking for diversity and redundancy. This unit can be adapted to every type of shielded cabinets and also to any already existing alert systems (light tower, external buzzer,...)

Audible & Visual Alert

The AVARA/C warns the operator that X or Gamma radiations are being emitted using 2 different modes: Visual / Audible alert.

The Audible mode starts a powerful warning buzzer (90dBA) which can be heard at a distance up to 30m and even more depending on the type of environment.



Several LEDs warn the user on the AVARA/C status. When radiations are detected, the red led "Radiation ON" lights up. The "Alarm" led lights up when the AVARA/C identify a risky situation (doors opening while ionizing radiations are being detected).

It is possible to add relay lighting beacons or external buzzers (optional) by using existing internal relays.

Increase Security

If the radiation detector is faulty, a specific LED (Defect Sensor) lights up.

Reporting

The AVARA/C allows data exportation thanks to the RS232 connector included to this unit.

Specifications

Mechanical		
Size	mm	175x115x110
	Inch	6,9"x 4,5"x3,9"
Weight	kg	0,7
Protection		IP62
Quality assurance		CE manufacturing process
Electrical		
Power supply	VAC	220 V (0,1A)
Potential free outputs		4
Configurable Inputs		4
Radiological characteristics		
Geiger Müller detector (RX et Gamma)		
Energy range	keV	60 à 2000
Sensitivity	Cps/mR/h	1,4
Alert Signals		
Audible alert power (buzzer)	dB	100
Auto-check LED		
Environmental		
Operating temperature	°C	-20 à 60
Storage temperature	°C	-20 à 70
Relative humidity	%	10 à 95
Divers		
Embedded microprocessors, data logging and data communication , Auto-check		
Options		
External flashing lamp, external buzzer		

Producer

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Distributor

