

ALARMS UNIT

TYPE AU7202

Technical Data



Features :

- Uses SoC Ires board and VF61, based on ARM Cortex A5 400MHz ,1.5MB SRAM,128MB Flash,extensive use of peripheral devices & Ethernet interface has been employed.
- The user interface is through Radgrid Software
- Normal and Active alarm conditions will display on Radgrid software screen & IN ALARAM UNIT.
- ACK / RST through RadGrid Software.

ALARMS UNIT Type AU 7202 manufactured & supplied by Nucleonix Systems is primarily designed to indicate audio/visual alarms of the corresponding probes , if the dose rate exceeds preset value or hardware fault. It uses latest state-of-art electronic devices including SoC based on ARM cortex A5 400MHz CPU with associated peripheral devices and other discrete ICs & components. Use of these devices makes it compact & highly reliable, communication under networked environment.

Alarms Unit (AU 7202) has a visual annunciator unit to show GREEN , YELLOW & RED for NORMAL, HARDWARE FAILURE & ACTIVE conditions respectively, shown Radgrid software screen And Alarms unit LED.

User interface is through Radgrid Software by using Ethernet Communication, Multiple Units can be networked. The user interface is through Radgrid Software by using Ethernet Communication. It can be installed in the vicinity of the corresponding detector probeor as desined,

Alarm annunciation scheme

As tabulated below:

Parameter Status	Visual indication	Audio
Normal	GREEN	OFF
ACTIVE	RED	ON
On ACK	Steady Red	OFF
On Reset after normal	GREEN	OFF
Hard ware failure	Blinking YELLOW	ON
Detector failure	Blinking YELLOW	ON
High voltage failure	Blinking YELLOW	ON
High dose rate	Blinking RED	ON

The alarm level setting will be carried out through Radgrid Software by Ethernet Communication.

External Console:

RJ 45 connector for Ethernet port

Computer Interface : The monitor has a Ethernet 10/100Mbps port for interfacing with a remote Windows PC. The features supported by Ethernet port are given below.

- The PC and the AU7202 unit shall operate in a Client/Server configuration and the software(RADGRID) protocol will be TCP.
- The PC software shall give commands and send queries. The AU7202 unit will carry out various functions in response to the queries.

Instrument Controls:

- a) Acknowledgement icon for muting audio alarm through Radgrid software.
- b) Reset icon for resetting the Alarm indication and alarm relay through Radgrid software.

Instrument Fault indication:

HV failure: Visual alarm with flashing Yellow LED in ALARM UNIT.

Detector failure : Visual alarm with flashing Yellow LED in ALARM UNIT.

Alarm Indication:

- a) Red LED flashing in ALARAM UNIT.
- b) Loud alternating audiotone