VF NUCLEAR

RDU-22

RADIATION DISPLAY UNIT

KEY FEATURES

- Local display of up to 16 measurement channels
- Wide range of connectable detectors
- User-friendly colour touchscreen display
- Integrated visual and audible alerts.
- Networking via Ethernet interface
- Possibility to connect external alarm units

PURPOSE

The RDU-22 is a display unit intended for use in radiation monitors and monitoring systems. It provides archiving and displaying of measured values, and signalling when the preset alarm levels have been exceeded.

The basic functions of the unit are:

- data acquisition from connected detectors,
- local archiving of measured values and events logs,
- displaying current and historical values,
- local parameter setting via touchscreen display,
- fault and alarm visual and audible alerts.

There are three basic models available:

- **RDU-22** – a stand-alone display unit with up to 16 measurement channels (up to 16 detectors can be connected directly to this unit via RS-485 or Ethernet interface).
- **RDU-22M** – a primary display unit with RDU-22 features that also allows connection of 1 to 3 RDU-22S secondary display units.
- **RDU-22S** – a secondary display unit mirroring the screen of the primary RDU-22M, to which it is connected. Up to three RDU-22S can be connected to one RDU-22M. No detectors or other devices can be connected to RDU-22S.

The RDU-22 can be used as a display unit and archive for autonomous radiation monitors.

It can also be connected to host radiation monitoring systems, in which it provides local display of data and increases the data security by providing back-up data storage.

The main user menu enables to select one of the four basic displays:

- the main screen with the overview of connected detectors,
- the events log,
- a table with archive values for a selected channel,
- a graph with archive values for a selected channel.

The password and authorization key protected service menu enables setting of operational parameters, sending commands to connected detectors, and performing system diagnostics. Parameter setting is also possible from a connected PC via the user-friendly RMS UserSetup software.

The RDU-22 unit has a USB A connector which can used to export the instrument archive to a USB flash drive.

SPECIFICATIONS

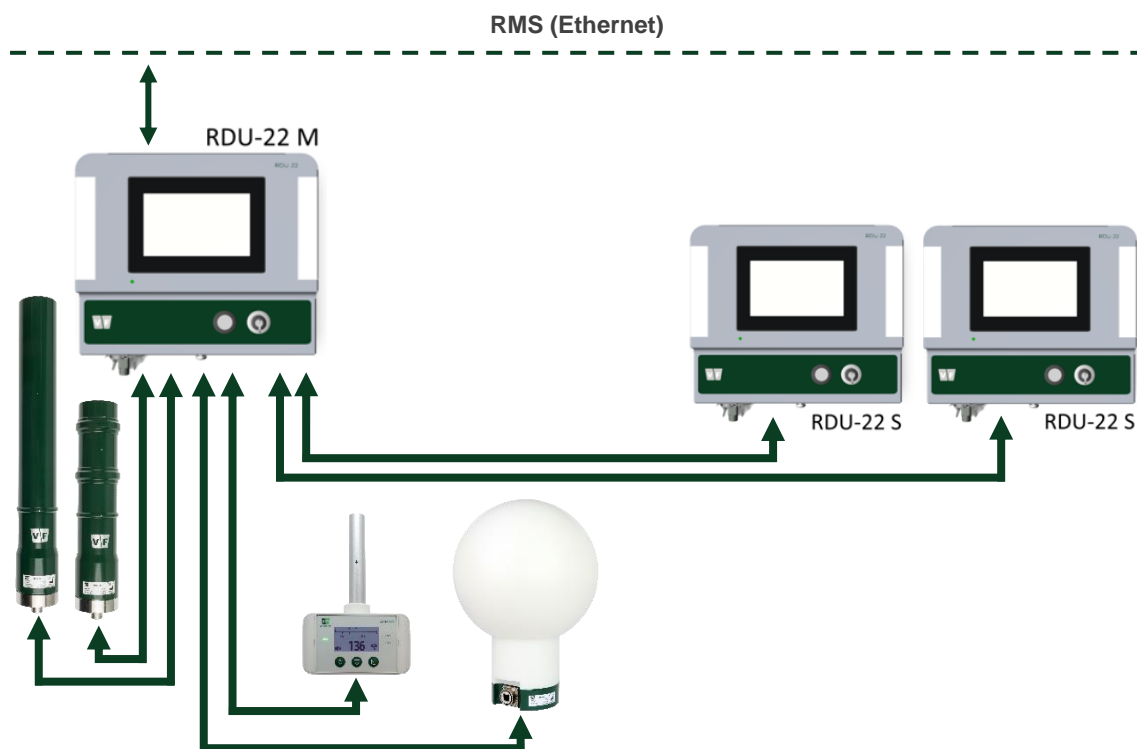|	
Display type	colour LCD touch screen
Display size	7''
Dimensions (W × H × D)	(350 × 300 × 160) mm
Power supply	100-240 VAC, 45-65 Hz
Weight	10 kg
Operating temperature range	from 0 to 50 °C
Ingress Protection	IP 54 / IP 40
Detector Interface	Ethernet, RS-485
Host system interface	Ethernet
Other interfaces	Digital outputs for alarm lights, relay output for fault indication, USB

OPTIONAL FEATURES[1]

	RDU-22	RDU-22M	RDU-22S
Power supply connection	IEC C14 connector or grommet	IEC C14 connector or grommet	IEC C14 connector or grommet
Detector interfaces (RS-485)	1 to 6 ECTA connectors or grommets	1 to 6 ECTA connectors or grommets	×

[1]Optional features must be specified before ordering.

RELATED PRODUCTS

RDU-02	Radiation Display Unit for up to 4 measurement channels
RMS	Radiation Monitoring System
AGM-03	Area Gamma Monitor
MDG-08e	Smart Dose Rate Meter (Dose Equivalent Rate, Sv/h)
MDG-04	Smart Dose Rate Meter (Dose Rate, Gy/h)
CPD-14	Continuous Particulate Detector
MDN-01	Neutron Dose Equivalent Rate Meter
ASU-50	Alarm Slave Unit

Typical connection of the RDU-22M with RDU-22S and selected probes to the host RMS system