

LZJ-22 Local Display Unit



The Local Display Unit LZJ-22 is a state-of-the-art device designed for use in radiation monitoring systems.

It serves for local processing of signals, displaying as well as for archiving and signaling excess alarms.

Purpose

The Local Display Unit LZJ-22 is a device designed for use in radiation monitoring systems. The device has the following basic functions:

- It displays current values and previous values on a touch-screen with a user-friendly graphic interface
- It sets parameters using the touch-display
- It locally archives values measured in detection devices
- It indicates faults and non-standard conditions (optically using lights and acoustic interior siren) to warn people in the event of radiation danger.

The Local Display Unit LZJ-22 may be used as:

- An autonomous monitor communicating with various types of detection units
- A compact gamma dose rate monitor, with a probe connected to the LZJ-22 unit
- A unit for local processing, display, and archiving of data used as part of a radiation monitoring system, providing its decentralization and increasing data safety in the system
- A control unit to control technologies depending on the current radiation situation.

Local Display Units LZJ-22 may be used as parts of extensive monitoring systems or as local/remote display units for autonomous monitors.

The display unit can be optionally extended with many additional input/output modules and so operate as many as 18* connected probes. Thanks to its universal concept, integration in various radiation control systems are available upon customer's request.

** It is necessary to select a suitable type of power supply and network topology according to the number of probes.*

Main Advantages

- A wide range of probes which can be connected to the unit directly or via remote access.
- Communication with the host system using the Ethernet network or RS-485.
- User-friendly colour touch-display allowing local set-up of parameters.
- Basic visual and acoustic alarm signalization is a standard; there is also a possibility of connecting additional alarm slave units.
- A wide range of interfaces – RS-485, Ethernet, USB, digital I/O.

Specifications

Main unit

Power supply	110/230 VAC
Weight	app. 5 kg (11 lb)
Temperature range	0 ~ 50°C (32 ~ 122°F)
Electrical protection	as standard – IP 20 on request – IP 40 or 65

Display

Type	colour touch-screen LCD
Diagonal	5.7"
Brightness	140 cd/m ² (13 lm/ft ² ·sr)

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Description

The LZJ-22 components are located in a solid box. The main component is the control unit with a colour touch-display and a memory medium providing high reliability and security of the entire system. As standard, the unit contains:

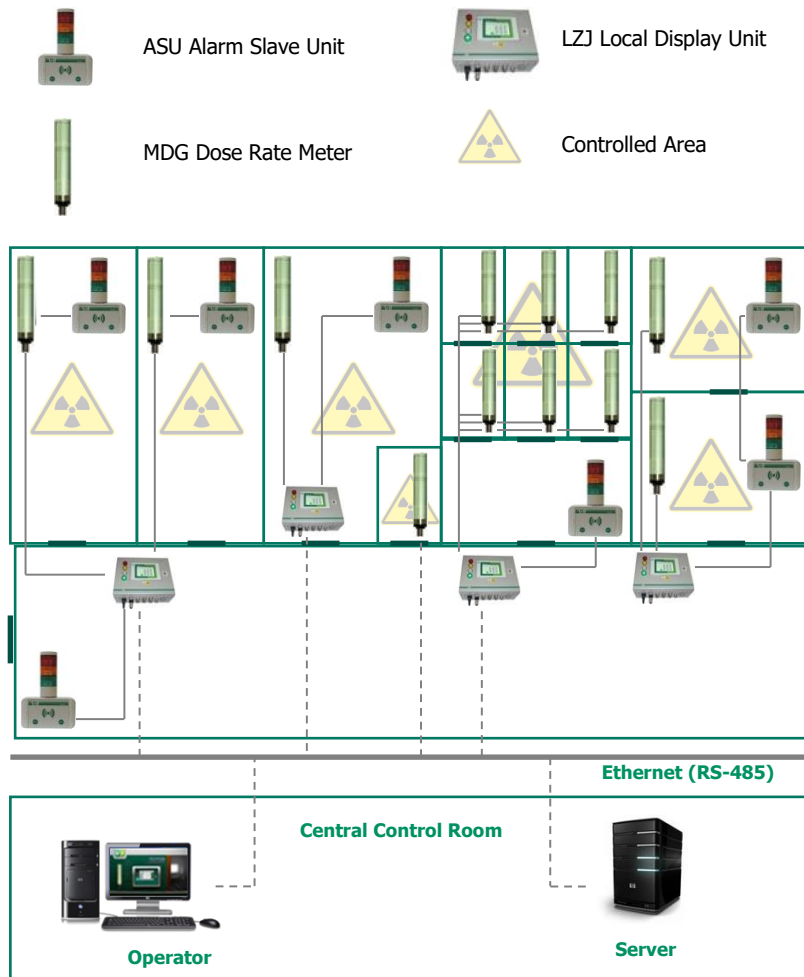
Basic components

- A power supply source
- ETHERNET interface output to the superior system which provides local and/or remote service and set-up functions
- Four signalization lights and an internal acoustic siren

Basic modules

- A module with 6 digital outputs (5 used for alarms, 1 free)
- A module with 12 digital outputs
- A module with RS-485 interface to connect 2 detection units (up to 10 in a loop)

Layout Scheme



Models and Accessories

Type	Description
K0743	The basic type with a fixed connection through a grommet of a detection unit (up to 10 in a loop)
Optional Accessories	
<ul style="list-style-type: none"> ▪ ECTA connectors for probes connection. ▪ Mechanical chassis IP 40/ IP 65 ▪ Mechanical finish for independent connection of 2 ~ 10 detection units using autonomous inputs 	
Optional Modules*	
<ul style="list-style-type: none"> ▪ Additional module of the RS-485 interface for detection unit connection ▪ Additional module with 12 digital outputs ▪ Additional module with 12 digital inputs ▪ Additional module with current loop ▪ Additional module with relay output 	
<i>* maximum number of additional modules 4</i>	
Related Products	
S0803	RMS software
K0830	Alarm Slave Unit ASU-50
N/A	Dose Rate Meters MDG-0x series
K1295-01	Power supply and communication box PSJ-01 for connecting detectors into the RS-485 loop
K1295-02	Power supply and communication box PSJ-02 for connecting detectors into the RS-485 loop and to the ASU-50 Alarm Slave Unit
K1295-03	Power supply and communication box PSJ-03 for connecting detectors into the RS-485 loop with digital and relay outputs to operate safety elements



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Contact Address

Czech Republic

VF, a.s., nám. Míru 50
CZ 679 21 Černá Hora
tel. +420 516 428 611
fax +420 516 428 610
info@vf.eu

Slovak Republic

VF, s.r.o., M. R. Štefánika 9
SK 010 02 Žilina
tel. +421 415 072 411
fax +421 415 072 410
info@vf.eu

Your supplier