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MEDICINE

RMS

RADIATION MONITORING SYSTEM



MAIN ADVANTAGES

- Modular system
- Interconnection with environmental, air and liquid monitoring probes
- Software application provides complete management of radiation monitoring system
- Availability of current and archive values
- Single-channel and multi-channel tables and graphs
- User-friendly graphical interface

PURPOSE

RMS is a standardized system for monitoring the radiation situation. Various radiation monitors, display units and signaling units can be connected to the system.

Radiation information is read from radiation monitors by local LZJ-22 display units, via RS-485 interface, at regular intervals. The unit allows you to present the current radiation situation from connected monitors.

Data from LZJ-22 are, via Ethernet, periodically saved into a SQL database on a server RMS system. Data from RMS server are presented on operator PCs using RMS Client application. Among other things, the application allows you to set selected RMS parameters, such as signaling levels.

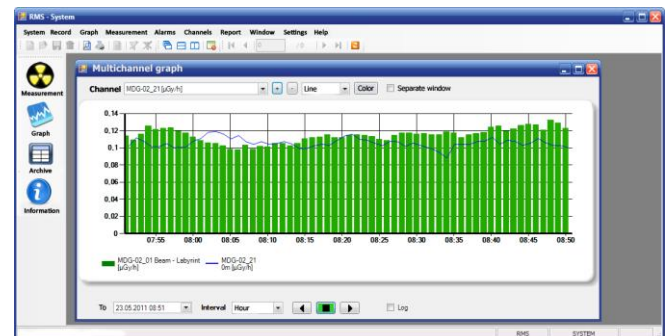
Data are displayed in the form of tables, columns or in the form of a bar graph. The application allows printing of reports also.

The RMS radiation monitoring system consists of several modules:

- Database - archives measured data in ORACLE database
- Collector - ensures regular collection of data from LZJ-22
- RMS Client - provides presentation of measured values

The RMS Client includes the below listed functions:

- Measurement - display all measurements from connected monitors, their current status and measured values
- Graph - presentation of measured values in the graph
- Channels - set parameters for each monitor
- Reports - information about measurements and faults in the system



Graph module – multichannel graph

RMS RADIATION MONITORING SYSTEM

SERVER CONFIGURATION

Processor	Intel 4 Core Xeon
Operation memory	min. 8 GB
Operating system	Microsoft Windows Server 2012 or higher
Database	Oracle version 11 or higher
UPS	Min. performance for secure server shutdown. On-line communication with the server providing server shutdown in case of battery UPS (protection against damage and data loss database).
Design	RACK 19“

PC CONFIGURATION

Processor	Intel i5 or higher
Operation memory	4 GB RAM
Accessories	CD or DVD, mouse, keyboard, USB port
Monitor	HD 1920 × 1080
Operating system	Microsoft Windows 10 Pro
Languages	Czech, English, Russian
Print reports	PDF Creator, Report Viewer 2010

ID	Label	Note	Value	Unit	Timestamp	Period	Status	Assochto	Error
1	MDG-02_01	Beam - Labant	1.395	µSv/h	24.05.2011 02:00	60	0x00		
2	MDG-02_02	Beam - technologic	1.395	µSv/h	24.05.2011 02:00	60	0x00		
3	MDG-02_03	Stredovane palivo 0m - operacni	1.395	µSv/h	24.05.2011 02:00	60	0x00		
4	MDG-02_04	Stredovane palivo 0m	1.395	µSv/h	24.05.2011 02:00	60	0x00		
21	MDG-02_21	Stredovane palivo 0m	1.196	µSv/h	24.05.2011 02:00	60	0x00		
22	MDG-02_22	Stredovane palivo 0m - operacni	1.196	µSv/h	24.05.2011 02:00	60	0x00		
23	MDG-02_23	Stredovane palivo +4.0m	3.887	µSv/h	24.05.2011 02:00	60	0x10		
24	MDG-02_24	Vetkovni prator	1.196	µSv/h	24.05.2011 02:00	60	0x10		
25	MDG-02_25	Beam - Labant	1.082	µSv/h	24.05.2011 02:00	60	0x00		
26	MDG-02_26	Beam - technologic	1.082	µSv/h	24.05.2011 02:00	60	0x100		
101	MDG-02_101	Beam1 - technologic	1.196	µSv/h	24.05.2011 02:00	10	0x10		
102	MDG-02_102	Beam2 - technologic	1.196	µSv/h	24.05.2011 02:00	10	0x10		

Measurement module - current values

	LZJ10-MEN11 [µSv/h]	LZJ10-MEN12 [µSv/h]	LZJ10-MEN13 [µSv/h]	LZJ10-AGM11 [µSv/h]
23.05.2011 23:59:00	0.00829	0	0	0.178
23.05.2011 23:56:00	0.00829	0	0	0.269
23.05.2011 23:57:00	0.00829	0	0	0.233
23.05.2011 23:58:00	0.00829	0	0	0.237
23.05.2011 23:59:00	0.00829	0	0	0.207
24.05.2011 00:00:00	0.00829	0	0	0.224
24.05.2011 00:01:00	0.00829	0	0	0.239

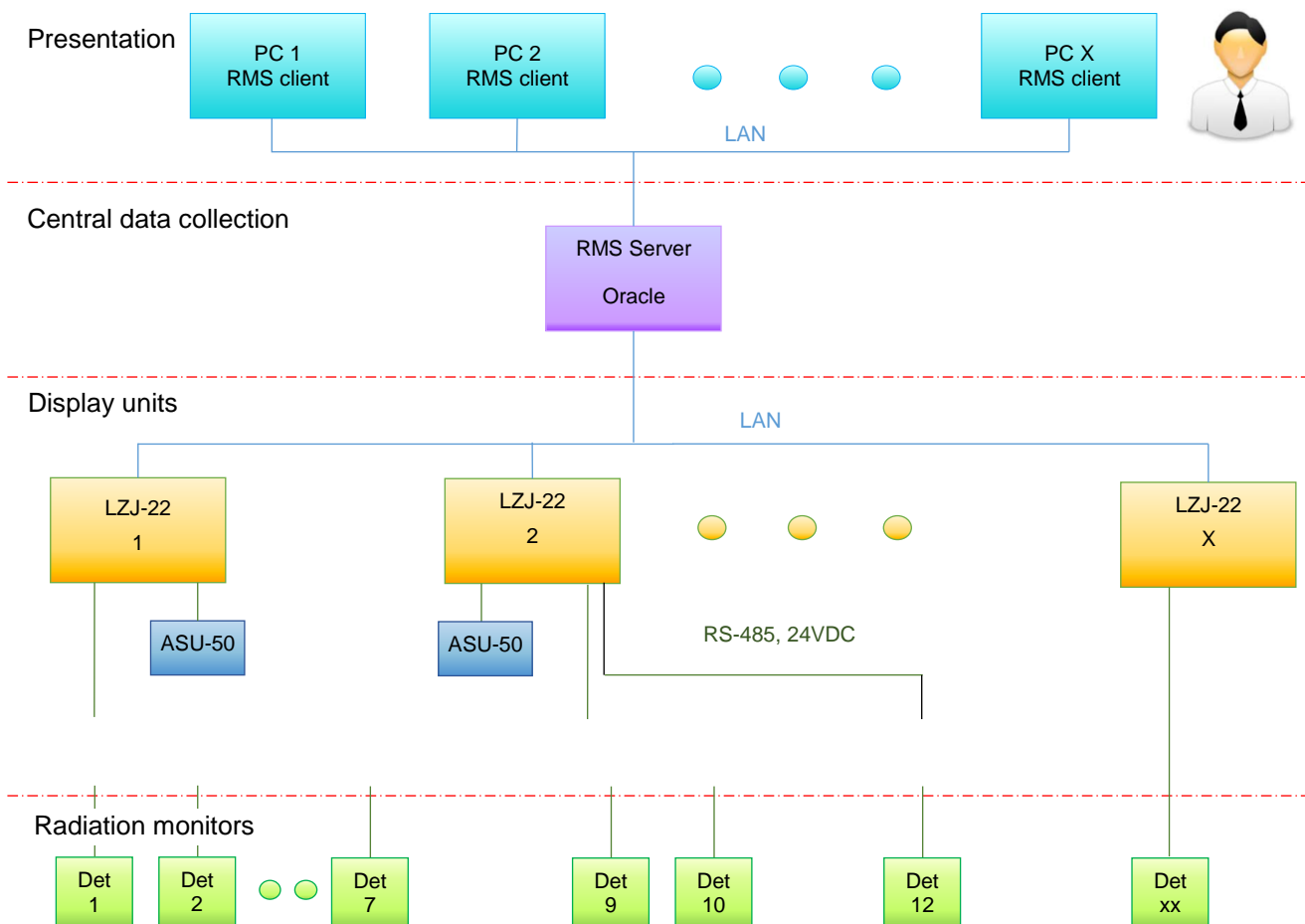
Alarm module



RMS RADIATION MONITORING SYSTEM

OPTIONAL ACCESSORIES

Server	PC with installed RMS database and data collection software
Operator	PC with installed RMS data presentation



RMS system scheme

RMS RADIATION MONITORING SYSTEM

RELATED PRODUCTS

MDG-04	Gamma Dose Rate Meters
MDG-08e	Gamma Dose Rate Meters
AGM-02	Area Gamma Monitor
MDN-01	Neutron Dose Rate Meter
CPM-310	Continuous Particulate Monitor
CPD-14	Continuous Aerosol Detector
CID-03	Continuous Iodine Detector
LZJ-22	Local Display Unit
ASU-50	Alarm Slave Unit



ASU-50



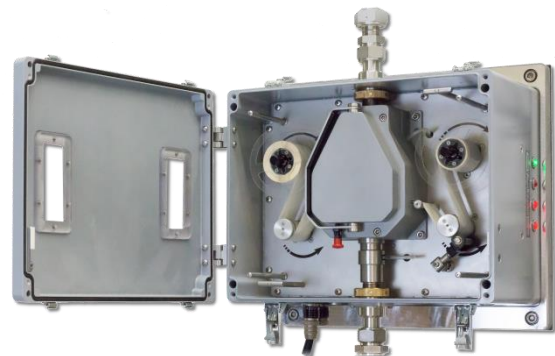
LZJ-22



CPM-310



MDN-01



CPD-14

