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## RMS

# RADIATION MONITORING SYSTEM



## MAIN ADVANTAGES

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

## PURPOSE

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

Radiation data is read from radiation detectors and monitors by local display units, via RS-485 interface, at regular intervals. The local display unit allows to present the current radiation levels from connected detectors.

This data is, via Ethernet, periodically saved into a SQL database on a RMS system server. Data from RMS server are presented on operator workstations with RMS Client application. Among other, the application enables the setting of selected parameters, such as alarm levels.

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

The RMS radiation monitoring system consists of several modules:

- Database - archives measured data in ORACLE database
- Collector - ensures regular collection of data from the connected local display units
- RMS Client - provides presentation of measured values

The RMS Client includes the following 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	NAME	UNIT	VALUE	UNIT	THRESHOLD	ALARM	STATUS	GROUP
1	1809-02_01	Beam - Laboratory	0.0000	µSv/h	24.00.2017 02:00	0.01	0.00	0.00
2	1809-02_02	Beam - radiography	0.0000	µSv/h	24.00.2017 02:00	0.01	0.00	0.00
3	1809-02_03	Background plane - 1st - radiography	0.0000	µSv/h	24.00.2017 02:00	0.01	0.00	0.00
4	1809-02_04	Background plane - 2nd - radiography	0.0000	µSv/h	24.00.2017 02:00	0.01	0.00	0.00
5	1809-02_05	Background plane - 3rd - radiography	0.0000	µSv/h	24.00.2017 02:00	0.01	0.00	0.00
6	1809-02_06	Background plane - 4th - radiography	0.0000	µSv/h	24.00.2017 02:00	0.01	0.00	0.00
7	1809-02_07	Background plane - 5th - radiography	0.0000	µSv/h	24.00.2017 02:00	0.01	0.00	0.00
8	1809-02_08	Beam - radiography	0.0000	µSv/h	24.00.2017 02:00	0.01	0.00	0.00
9	1809-02_09	Beam - radiography	0.0000	µSv/h	24.00.2017 02:00	0.01	0.00	0.00
10	1809-02_10	Beam - radiography	0.0000	µSv/h	24.00.2017 02:00	0.01	0.00	0.00

Measurement module - current values

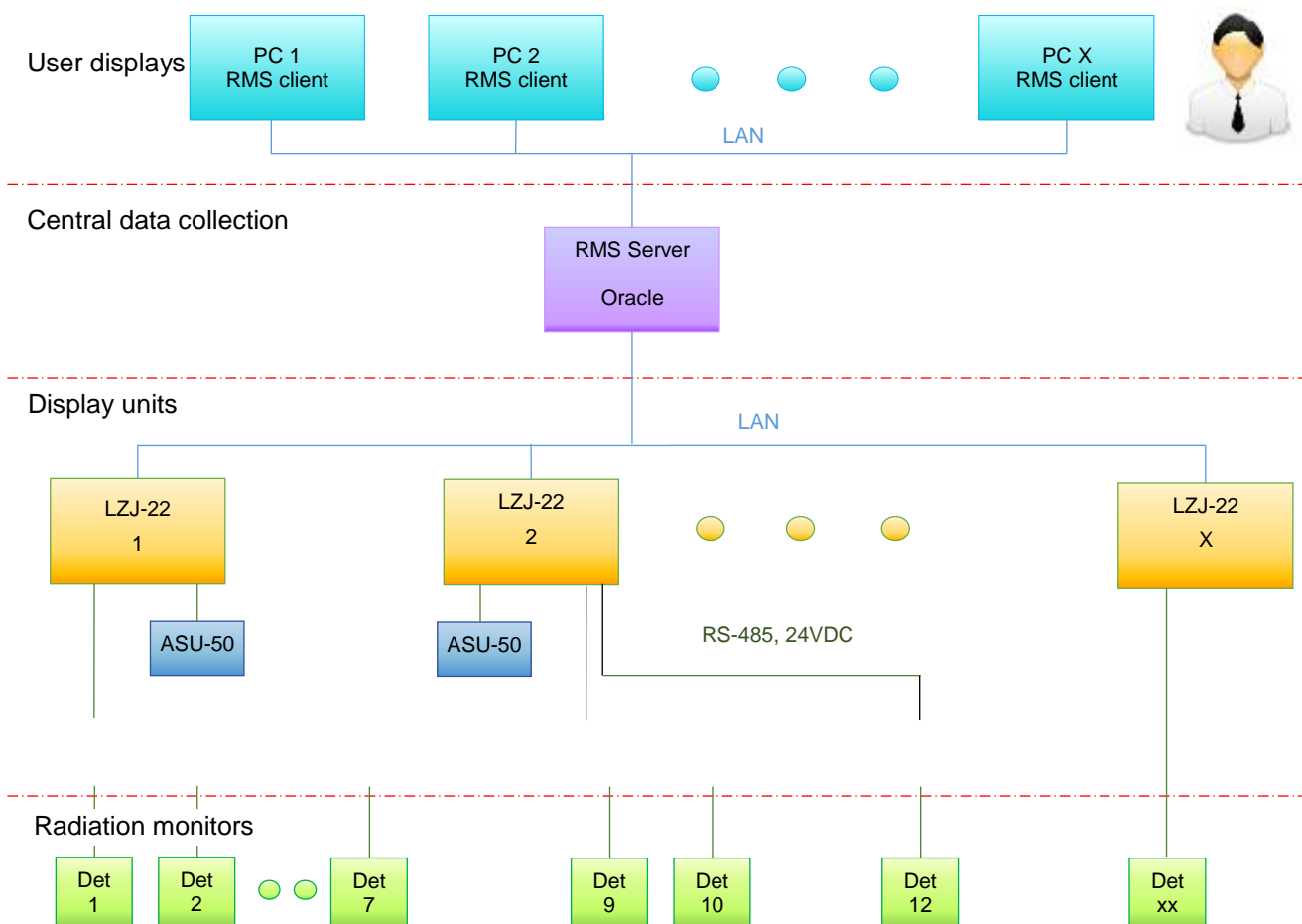
Time	1809-02_01	1809-02_02	1809-02_03	1809-02_04
24.00.2017 02:00:00	0.0000	0.0000	0.0000	0.0000
24.00.2017 02:05:00	0.0000	0.0000	0.0000	0.0000
24.00.2017 02:10:00	0.0000	0.0000	0.0000	0.0000
24.00.2017 02:15:00	0.0000	0.0000	0.0000	0.0000
24.00.2017 02:20:00	0.0000	0.0000	0.0000	0.0000
24.00.2017 02:25:00	0.0000	0.0000	0.0000	0.0000
24.00.2017 02:30:00	0.0000	0.0000	0.0000	0.0000
24.00.2017 02:35:00	0.0000	0.0000	0.0000	0.0000
24.00.2017 02:40:00	0.0000	0.0000	0.0000	0.0000
24.00.2017 02:45:00	0.0000	0.0000	0.0000	0.0000
24.00.2017 02:50:00	0.0000	0.0000	0.0000	0.0000
24.00.2017 02:55:00	0.0000	0.0000	0.0000	0.0000
24.00.2017 03:00:00	0.0000	0.0000	0.0000	0.0000

Alarm module

# RMS RADIATION MONITORING SYSTEM

## OPTIONAL ACCESSORIES

<b>Server</b>	PC with installed RMS database and data collection software
<b>Operator</b>	PC with installed RMS data presentation software



RMS system scheme

## RELATED PRODUCTS

<b>MDG-04</b>	Gamma Dose Rate Meters
<b>MDG-08e</b>	Gamma Dose Rate Meters
<b>AGM-02</b>	Area Gamma Monitor
<b>MDN-01</b>	Neutron Dose Rate Meter
<b>CPM-300</b>	Continuous Particulate Monitor
<b>CPD-14</b>	Continuous Particulate Detector
<b>CID-03</b>	Continuous Iodine Detector
<b>LZJ-22</b>	Local Display Unit
<b>ASU-50</b>	Alarm Slave Unit



ASU-50



LZJ-22



CPM-300



MDN-01



CPD-14