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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	Label	Note	Value	Unit	Timestamp	Period	Status	AssocNo	Error
1	MDG-02_01	Beam - Labyrint	0.135	µSv/h	24.05.2011 02:00	60	Ok00		
2	MDG-02_02	Beam - technologie	1.355-01	µSv/h	24.05.2011 02:00	60	Ok00		
3	MDG-02_03	Stočované pásmo 0m - operátů	1.355-01	µSv/h	24.05.2011 02:00	60	Ok00		
4	MDG-02_04	Stočované pásmo 0m	1.355-01	µSv/h	24.05.2011 02:00	60	Ok00		
21	MDG-02_21	Stočované pásmo 0m	1.355-01	µSv/h	24.05.2011 02:00	60	Ok00		
22	MDG-02_22	Stočované pásmo 0m - operátů	1.355-01	µSv/h	24.05.2011 02:00	60	Ok00		
23	MDG-02_23	Stočované pásmo +4.3m	9.510-02	µSv/h	24.05.2011 02:00	60	Ok10		
24	MDG-02_24	Vanekovni prostor	9.552-02	µSv/h	24.05.2011 02:00	60	Ok10		
25	MDG-02_25	Beam - Labyrint	1.355-01	µSv/h	24.05.2011 02:00	60	Ok00		
26	MDG-02_26	Beam - technologie	1.082-01	µSv/h	24.05.2011 02:00	60	Ok100		
101	MDG-02_101	Beam1 - technologie	0.316-02	µSv/h	24.05.2011 02:00	10	Ok10		
102	MDG-02_102	Beam2 - technologie	0.302-02	µSv/h	24.05.2011 02:00	10	Ok10		

Measurement module - current values

	LZJ10-MDN11 [µSv/h]	LZJ10-MDN12 [µSv/h]	LZJ10-MDN13 [µSv/h]	LZJ10-AGM11 [µSv/h]
23.05.2011 23:55:00	0.00829	0	0	0.178
23.05.2011 23:56:00	0.00829	0	0	0.209
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	0.24
24.05.2011 00:01:00	0.00829	0	0	0.239

Alarm module

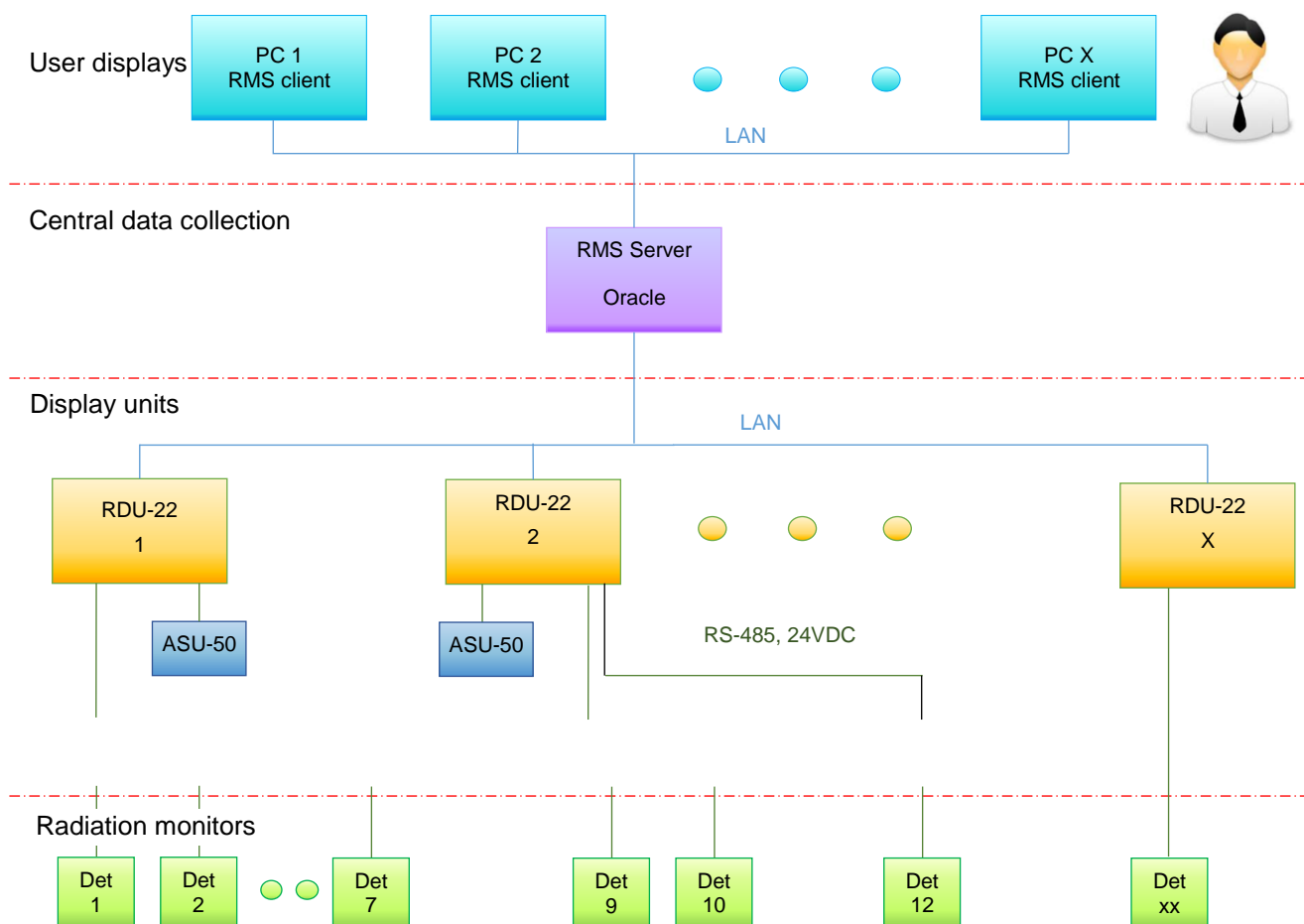


RMS RADIATION MONITORING SYSTEM

OPTIONAL ACCESSORIES

Server PC with installed RMS database and data collection software

Operator PC with installed RMS data presentation software



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-300	Continuous Particulate Monitor
CPD-14	Continuous Particulate Detector
CID-03	Continuous Iodine Detector
RDU-02	Radiation Display Unit (4 channels)
RDU-22	Radiation Display Unit (16 channels)
ASU-50	Alarm Slave Unit



ASU-50



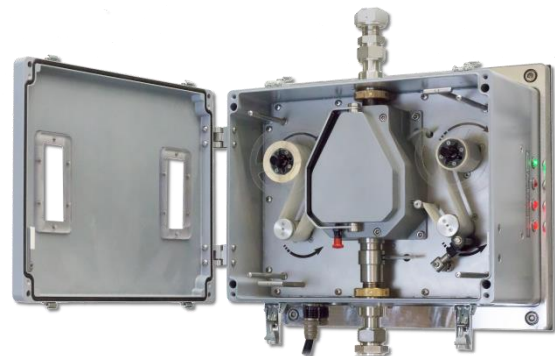
RDU-22



CPM-300



MDN-01



CPD-14

