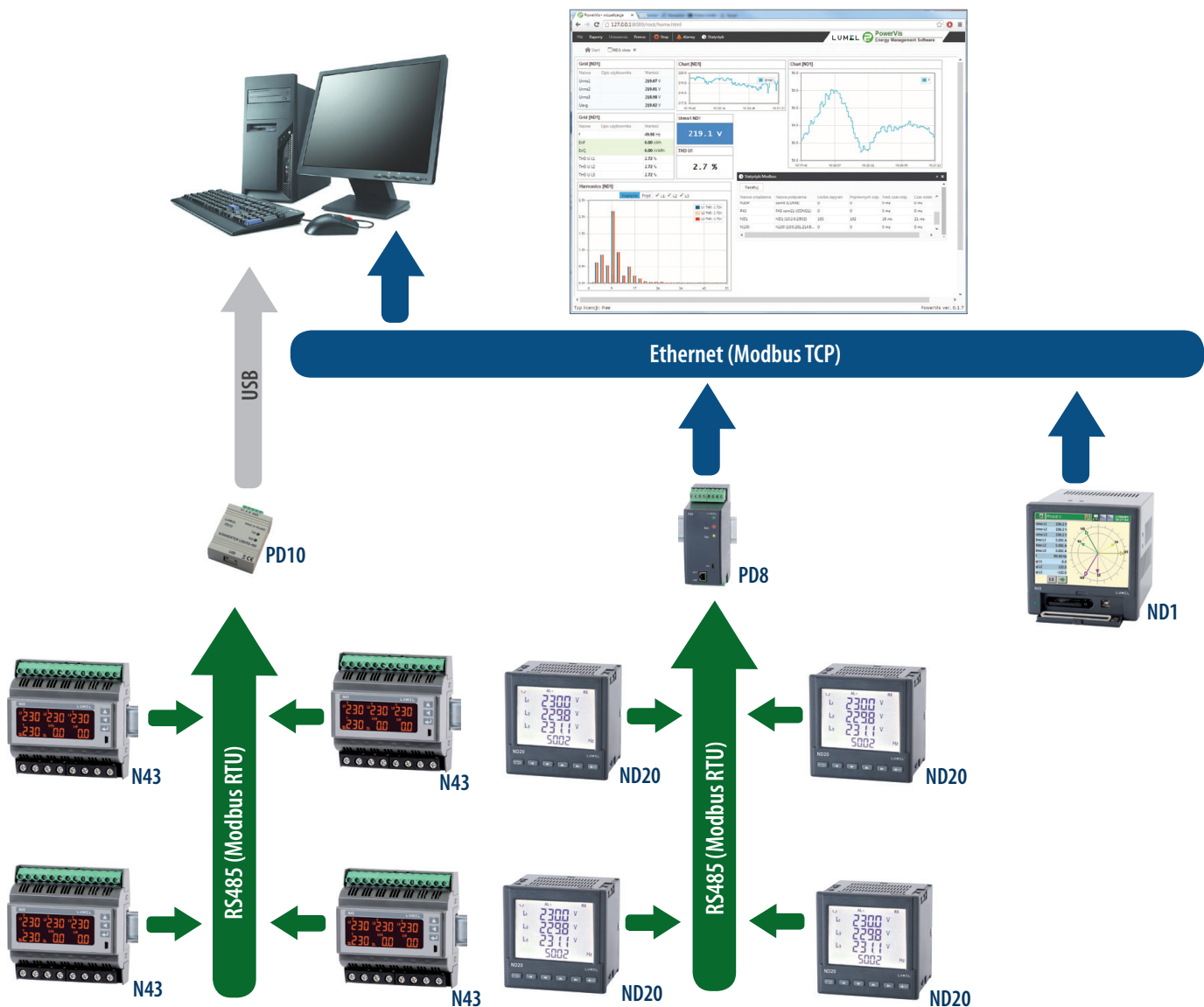




- **Dedicated to power network parameters visualization, monitoring, archiving and reporting.**
- Compatible with all Internet browsers.
- Remote access to PowerVis software via Internet browser from any computer.
- Simple and intuitive configuration.
- Clear user interface.
- Data reading from LUMEL's network meters and transducers.
- Data reading from other devices with Modbus and Modbus TCP protocol (also for devices of other producers).
- **Free license for using with 1 device.**

## EXAMPLE APPLICATION



## VISUALIZATION



- visualization of chosen parameters from monitored devices
- visualization with multiple tabs (views), with possibility of multiple widgets (graphic elements presenting measured values)
- available widgets: Digital field, table, graph (time plots), harmonics

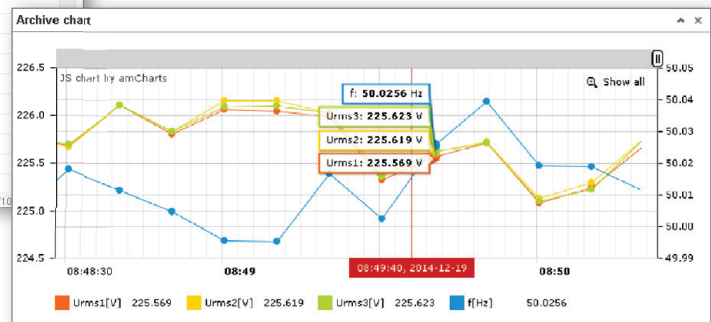
## MONITORING

Occurrence time	Decay time	Name	Priority	Description
2014-12-19 09:2...	---	Example alarm	9	Urms1 value alarm

- Visual signaling of alarm events
- Easy alarm settings (mathematic operations)
- Presentation of alarm source including event description and time and date

## ARCHIVING

Date and time	Urms1 [V]	Urms2 [V]	Urms3 [V]	f [Hz]
2014-12-18 10:49:30	225.734	225.747	225.698	50.023
2014-12-18 10:49:40	225.469	225.518	225.479	50.023
2014-12-18 10:49:50	226.024	226.079	226.053	50.013
2014-12-18 10:50:00	225.786	225.857	225.789	50.029
2014-12-18 10:50:10	225.653	225.669	225.680	50.023
2014-12-18 10:50:20	226.021	226.072	226.022	50.012
2014-12-18 10:51:00	225.852	225.579	225.573	50.009
2014-12-18 10:50:40	225.485	225.539	225.641	50.010
2014-12-18 10:50:50	225.826	225.861	225.873	50.035
2014-12-18 10:51:00	225.852	225.903	225.909	50.016
2014-12-18 10:51:10	225.950	226.009	225.952	50.028
2014-12-18 10:51:20	226.570	226.616	226.569	50.033
2014-12-18 10:51:30	225.928	225.935	225.757	50.026
2014-12-18 10:51:40	226.284	226.327	226.232	50.030



- Archiving of chosen parameters in software's internal database
- Presentation of archived data as tables and time plots
- Data export to CSV file

## REPORTING

From	To	Date	Min V	Max V	Avg V
18.12.2014 10:48:00	18.12.2014 10:50:00	18.12.2014 10:49:40	225.469	226.024	225.742
18.12.2014 10:50:00	18.12.2014 10:52:00	18.12.2014 10:50:40	225.485	226.570	225.931
18.12.2014 10:52:00	18.12.2014 10:54:00	18.12.2014 10:52:30	226.351	226.751	226.506
19.12.2014 08:04:00	19.12.2014 08:06:00	19.12.2014 08:05:50	224.625	224.825	224.625
19.12.2014 08:06:00	19.12.2014 08:08:00	19.12.2014 08:06:00	224.061	225.621	224.673
19.12.2014 08:00:00	19.12.2014 08:00:10	19.12.2014 08:00:10	224.030	225.607	225.207
19.12.2014 08:16:00	19.12.2014 08:18:00	19.12.2014 08:17:00	223.482	225.044	224.330
19.12.2014 08:18:00	19.12.2014 08:20:00	19.12.2014 08:19:30	224.371	225.039	224.697
19.12.2014 08:20:00	19.12.2014 08:22:00	19.12.2014 08:20:40	223.895	225.092	224.605
19.12.2014 08:22:00	19.12.2014 08:24:00	19.12.2014 08:23:10	225.077	225.820	225.446
19.12.2014 08:24:00	19.12.2014 08:26:00	19.12.2014 08:24:40	224.825	225.766	225.254
19.12.2014 08:46:00	19.12.2014 08:48:00	19.12.2014 08:47:50	225.259	225.431	225.330
19.12.2014 08:48:00	19.12.2014 08:50:00	19.12.2014 08:49:30	225.324	226.101	225.815
19.12.2014 08:50:00	19.12.2014 08:52:00	19.12.2014 08:50:00	225.084	225.685	225.274

- Minute, hourly, daily and weekly reports of chosen, archived data
- Possibility to choose minimum, maximum and average value

## TECHNICAL AND FUNCTIONAL POSSIBILITIES

- Transmission protocol: Modbus RTU, Modbus TCP
- Mode: 8N1, 8N2, 8E1, 8O1
- Transmission speed: 1200...256000 bit/s
- Time interval of parameters checking: 1...60s (depending on number of devices connected and number of read parameters)
- Time interval of parameters' archiving: 1s...1h
- Number of supported devices: up to 50 devices, can be selected with order code
- Measured parameters' templates for LUMEL's meters and transducers: N14, N27P, N30P, N43, N100, ND1, ND10, ND20, P41, P43
- Data reading from other devices with Modbus and Modbus TCP protocol (option – can be selected with order code)
- Parameters visualization with 50 tabs
- **Free license: up to 1 device and 5 tabs, without operating other Modbus devices**

## OS REQUIREMENTS

- OS: MS Windows XP or later,
- Updated version of Internet browser
- Other requirements same as for OS

## ORDERING

PowerVis software				
	<b>OP40 -</b>	XXX	X	XX
<b>Number of handled devices:</b>				
up to 5 devices		005		
up to 10 devices		010		
up to 30 devices		030		
up to 50 devices		050		
<b>Handling other Modbus RTU and Modbus TCP devices:</b>				
wihout			0	
with			1	
<b>Version:</b>				
standard				00
custom-made*				XX

\* after agreeing with the manufacturer