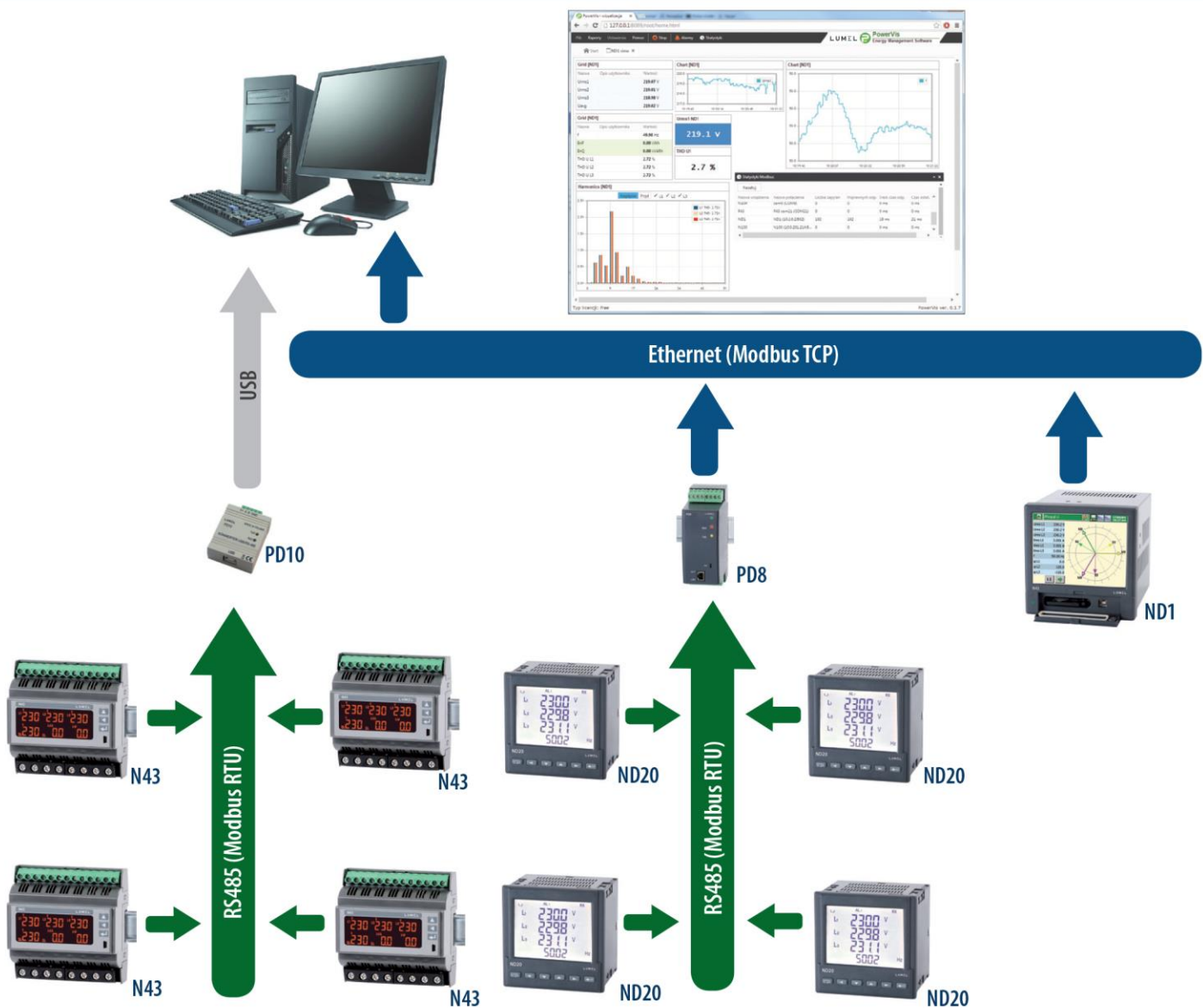




- **Dedicated to power network parameters visualization, monitoring, archiving and reporting.**
- Compatible with all Internet browsers.
- Remote access to PowerVis software via Internet browser from any computer.
- Simple and intuitive configuration.
- Clear user interface.
- Data reading from LUMEL's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

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

The Alarms window displays the following table:

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

Buttons: Confirm, Confirm all. Status: Active alarm - not confirmed, Inactive alarm - not confirmed, Active alarm - confirmed.

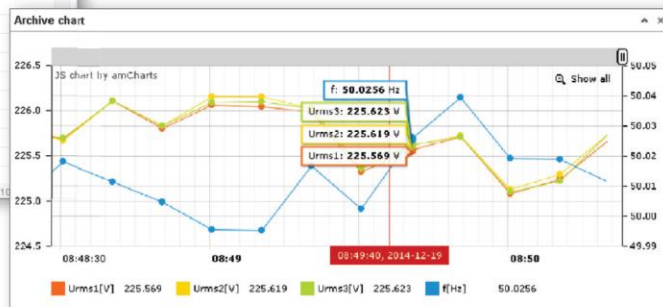
- Visual signaling of alarm events
- Easy alarm settings (mathematic operations)
- Presentation of alarm source including event description and time and date

ARCHIVING

The Archive window shows a table of archived data for N43:

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	225.957	225.789	50.029
2014-12-18 10:50:10	225.853	225.669	225.660	50.023
2014-12-18 10:50:20	226.021	226.072	226.022	50.012
2014-12-18 10:50:30	225.537	225.579	225.573	50.009
2014-12-18 10:50:40	225.485	225.539	225.541	50.010
2014-12-18 10:50:50	225.826	225.961	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	226.568	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

The Report window shows a table of report data for Urms1:

From	To	Date	Min	V	Date	Max	V	Avg
18.12.2014 10:48:00	18.12.2014 10:50:00	18.12.2014 10:49:40	225.469		18.12.2014 10:49:50	226.024		225.742
18.12.2014 10:50:00	18.12.2014 10:52:00	18.12.2014 10:50:40	225.485		18.12.2014 10:51:20	226.570		225.931
18.12.2014 10:52:00	18.12.2014 10:54:00	18.12.2014 10:52:20	226.351		18.12.2014 10:52:30	226.751		226.506
18.12.2014 08:04:00	18.12.2014 08:06:00	18.12.2014 08:05:50	224.825		18.12.2014 08:05:50	224.825		224.825
18.12.2014 08:06:00	18.12.2014 08:08:00	18.12.2014 08:06:00	224.061		18.12.2014 08:07:50	225.621		224.673
18.12.2014 00:00:00	18.12.2014 00:10:00	18.12.2014 00:00:40	224.030		18.12.2014 00:00:10	225.607		225.207
18.12.2014 08:16:00	18.12.2014 08:18:00	18.12.2014 08:17:00	223.482		18.12.2014 08:16:10	225.044		224.330
18.12.2014 08:18:00	18.12.2014 08:20:00	18.12.2014 08:19:30	224.371		18.12.2014 08:18:40	225.039		224.697
18.12.2014 08:20:00	18.12.2014 08:22:00	18.12.2014 08:20:40	223.895		18.12.2014 08:21:40	225.082		224.605
18.12.2014 08:22:00	18.12.2014 08:24:00	18.12.2014 08:23:10	225.077		18.12.2014 08:23:40	225.820		225.446
18.12.2014 08:24:00	18.12.2014 08:26:00	18.12.2014 08:24:40	224.825		18.12.2014 08:24:10	225.766		225.254
18.12.2014 08:46:00	18.12.2014 08:48:00	18.12.2014 08:47:50	225.259		18.12.2014 08:47:40	225.431		225.330
18.12.2014 08:48:00	18.12.2014 08:50:00	18.12.2014 08:49:30	225.324		18.12.2014 08:49:40	226.107		225.915
18.12.2014 08:50:00	18.12.2014 08:52:00	18.12.2014 08:50:00	225.084		18.12.2014 08:50:20	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			
OP40 -	XXX	X	XX
Number of handled devices:			
up to 5 devices	005		
up to 10 devices	010		
up to 30 devices	030		
up to 50 devices	050		
Handling other Modbus RTU and Modbus TCP devices:			
wihout		0	
with		1	
Version:			
standard			00
custom-made*			XX

* after agreeing with the manufacturer