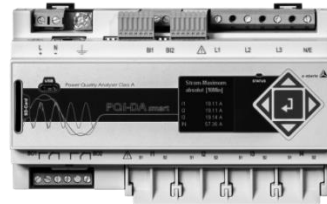
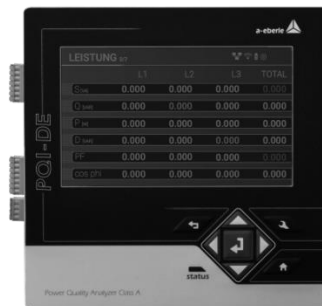


PQSys

Release Notes WinPQ lite

Version 5.2.5



Important Information

The software *WinPQ smart* is renamed to *WinPQ lite* and now supports the new PQ device PQI-DE!

Firmware v2.4.0 Revision 17795

- Feature and bug fix version of v2.2.10, Revision 17795
- Supported by WinPQ lite Version 5.2.6

Security relevant contents

- Added new feature user management via RADIUS server.
- Improved socket error handling for all network sockets.
- Customization of the ServerSecrets display as well as the Vendor ID.

Improvements and fixes

- Added new function *Measurement Supervision* (requires WinPQ lite Version 6).
- New numerical display page *RCM* for PQI-DE added.
- Added switch to skip saving of diagnostic data during rescue update.
- Adjustment of default value of secondary nominal voltage for hardware feature E3.
- Unified designation of S/N and A/N for all languages.
- Error tolerance for Modbus RTU increased.

We take care of it.



Firmware v2.2.10 Revision 17579

- Feature and bug fix version of v2.2.8, Revision 17494
- Supported by WinPQ lite Version 5.2.4

Security relevant contents

- Locking a firmware downgrade via rescue update.

Improvements and fixes

- Extension of the Modbus registers by the measured value pinst (instantaneous value flicker) in the 10/12 period data class.

Firmware v2.2.8 Revision 17494

- Feature and bug fix version of v2.2.6, Revision 17406
- Supported by WinPQ lite Version 5.2.2

Security relevant contents

- Commissioning wizard modified, so that after firmware update from version 1.8.x it can be executed manually via the display.

Improvements and fixes

- Syslog communication stabilized.
- Parameterization of the slave pointer data class optimized.
- Communication via USB improved.
- Adapted import of customer parameterization with active commissioning wizard.

We take care of it.



Firmware v2.2.6 Revision 17406

- Feature and bug fix version of v2.2.4, Revision 17323
- Supported by WinPQ lite Version 5.2.2

Security relevant contents

- Behaviour of the event counter adjusted

Improvements and fixes

- Behaviour of the event counter adjusted

Firmware v2.2.2 Revision 17143

- Feature and bug fix version of v2.2.0, Revision 16507
- Supported by WinPQ lite Version 5.2.2

Security relevant contents

- Optimization of the update process

Features and news

- **Residual Current Monitor (RCM)** function available on **PQI-DE**:
 - New Pop-Up messages to show the **RCM states** in the unit display
 - New device setup **RCM**
 - Extension of the control of the binary outputs (BO) by the **RCM states**
 - Addition of the **RCM states** for the Modbus communication protocol
 - Implementation of **RCM events**
- Stopping the measured value recording during device parameterization
- New **Italian** language available

Improvements and fixes

- Improvement of error handling in case of radio link interruptions
- Update language files

WinPQ lite Version 5.2.2

- Support and parameterization RCM function PQI-DE
- Support 5. current channel in online oscilloscope
- New language Italian

Security relevant contents

- Improvements in secure communication with PQ devices

Features and news

- Support and parameterization RCM function PQI-DE
- Support 5. current channel in online oscilloscope
- New language Italian

Improvements and fixes

- Problems with software updates fixed
- faulty menu display fixed
- Many minor bug fixes

Recommended firmware of the devices

PQI-DA smart and PQI-DE

PQI-DA smart	<i>Version 2.1.8</i>
PQI-DE	<i>Version 2.1.8</i>

Firmware v2.2.0 Revision 16507

- Feature and bugfix version of v2.1.8, Revision 15812
- Supported by WinPQ lite Version 5.2.0

Security relevant contents

- Improved handling of the encrypted authentication token
- Update of the user database

Features and news

- Vector diagram for **PQI-DE**
- Function for locking the device display for **PQI-DE**
- New numeric display with conductor-to-conductor voltage and extreme voltage values for **PQI-DE**
- New numerical display page with extreme voltage values on the **PQI-DA smart**
- Parameterization of the data class from the extreme values for current and voltage
- Temperature measurement incl. events at **PQI-DE**
- New commissioning wizard for easy parameterization of the new hardware features

Improvements and fixes

- Automatic configuration of the gateway in relation to the set IP address
- Improvement of the initial DHCP client configuration
- Improvement of the Modbus communication protocol
- Update language files

We take care of it.



Firmware v2.1.8 Revision 15812

- Bugfix version of v2.1.6, Revision 15681
- Support of WinPQ lite Version 5.1.0

Security relevant contents

- Update language file

Improvements and fixes

- Update language file

WinPQ lite Version 5.1.0

- Improvements in secure communication with PQ devices
- Support of the PQI-DE temperature channel

Security relevant contents

- Hash of the SSH key is also deleted when the device tile is removed
- Limit values of the user administration are already controlled in the software
- Improvements in secure communication with PQ devices

Features and news

- Support of the PQI-DE temperature channel

Improvements and fixes

- Incorrect display asymmetry in the online data corrected
- Error in parameterization Activation of SCADA protocols fixed
- Many minor bug fixes

Firmware v2.1.6 Revision 15681

- Bugfix version of v2.1.4, Revision 15211
- Support of WinPQ lite Version 5.0.0

Security relevant contents

- Adaptation of the limit values of the parameter *Minimum protocol version*
- Adaptation of the device display during initial commissioning in Security-Mode

Improvements and fixes

- Increase of the raw value buffer for DSP communication
- Adaptation of the trigger behavior of the TRMS recorder on restart
- Double update of the wizard status and duplicate functions removed

We take care of it.



Firmware v2.1.4 Revision 15211

- Bugfix version of v2.1.2, Revision 15162
- Support of WinPQ lite Version 5.0.0

Security relevant contents

- Update of recorder configuration file
- Update language file

Improvements and fixes

- Update of recorder configuration file
- Update language file

Firmware v2.1.2 Revision 15162

- Bugfix version of v2.1.0, Revision 14575
- Support of WinPQ lite Version 5.0.0

Security relevant contents

- Improved error handling when testing connections with IT security port scanners
- Improved error handling for connection termination in SSH communication
- Improved stability for SSH communication

Features and news

- Bar chart for voltage and current harmonics for PQI-DE
- Parameters for setting the device display
- Status output of the 8 binary inputs of the PQI-DE via Modbus and IEC60870-5-104 possible
- Software trigger via Modbus

Improvements and fixes

- Improved error handling when testing connections with IT security port scanners
- Improved error handling for connection termination in SSH communication
- Improved stability for SSH communication

WinPQ lite Version 5.0.0

- IT security functions according to BDEW Whitepaper
- Support of PQI-DA smart firmware version 1.8.10 and higher
- Support of PQI-DE

Security relevant contents

- Completion of commissioning of devices with active safety mode (available from firmware version 2.0)
- Support and setup of role-based access control (RBAC) for devices with firmware version 2.0 or higher
- Secure device communication SSH with AES-256 encryption of device connections, authentication at the device via ECDSA, ECDH key exchange, verification of data authenticity and integrity with SHA2-512-HMAC
(Firmware version 2.0 and commissioning of the device in safety mode necessary)
- Safety documentation for the entire PQ system

Features and news

- EN50160 Low voltage template EN50160:2010 Amd 2/3
- Documentation completely revised

Improvements and fixes

- Improved connection stability
- New wizard for adding devices

Firmware v2.1.0 Revision 14575

- Full support of PQI-DE
- IT security functions according to BDEW Whitepaper
- Support of WinPQ lite Version 5.0.0

Security relevant contents

- Set up role-based access control (RBAC) user management for role-based access control
- Secure device communication SSH with AES-256 encryption of device connections, authentication at the device via ECDSA, ECDH key exchange, verification of data authenticity and integrity with SHA2-512-HMAC
(Commissioning of the device in safety mode necessary)

Features and news

- EN50160 Low voltage template EN50160:2010 Amd 2/3
- Numeric display screens, setup and commissioning wizard for PQI-DE
- Control of the 8 binary inputs from the PQI-DE for recording control possible
- Added PQ-Events in IEC61850
- Added Virtual File System in IEC61850
- Added Screen "Power Factor"
- Documentation completely revised

Improvements and fixes

- Modified communication handling for Modbus TCP/IP
- IEC60870-5-104 revised to improve stability

We take care of it.



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