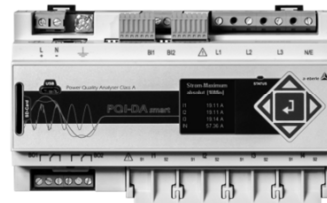
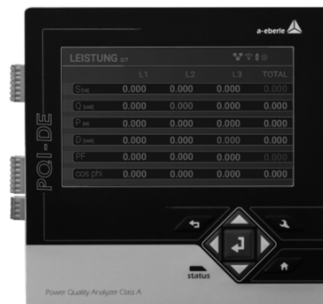


PQSys

Release Notes WinPQ lite

Version 5.0.0_1911191141



Important Information

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

Recommended firmware of the devices

PQI-D and PQI-DA

PQI-D with DSP 100 MHz

- 8 voltage inputs *Version 2.1.03 from 07.05.2014*
- 4 current- und 4 voltage inputs *Version 3.1.01 from 07.05.2014*

PQI-D with DSP 200 MHz

- 8 voltage inputs *Version 2.1.03 from 07.05.2014*
- 4 current- und 4 voltage inputs *Version 3.1.01 from 07.05.2014*

PQI-DA smart and PQI-DE

PQI-DA smart *Version 2.1.4*

PQI-DE *Version 2.1.4*

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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