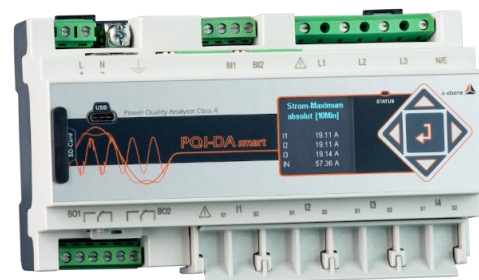


PQSys

Release Notes

PQI-DA smart & PQI-DE

Firmware V2.8.0



Note: Current information about the releases of the parameterization software WinPQlite can be found [here](#).

Firmware v2.8.0 Revision 19199

- Supported by WinPQ lite Version 6.2.0

Features and news

- Power Quality Data Interchange Format – PQDIF (software feature F1)
 - General conversion to the "IEEE 1159.3 - 2019" standard for fault records and synchronous data (10s, 10min, 2h)
 - Different file wrapping criteria 2h, 6h, 12h, 24h
 - Reserved memory of PQDIF is parameterizable
- Uniform format of the displayed quantities in the display of the PQI-DA smart.
- Reduction of the noise signal by the inherent noise of the calibration with respect to IEC 61557-12
- Calculation of the residual current TRMS (RCM) with a bandwidth of 20kHz
- New language Italian on PQI-DA smart
- New display pages on PQI-DE
 - state of binary inputs and outputs
 - level time diagram of RCM and FCM
- Actualization of the MappingDB with PQDIF Support

Security relevant contents

- Improvement system behavior for SSH communication
- defense mechanism against automated brute force - IP blacklist like Fail2Ban (intrusion prevention)
- Closing of an CMP Based TCP Reset Denial of Service Vulnerability

Improvements and fixes

- Improvement of the passive trigger after startup
- Displayed time on PQI-DE is now in local time
- Improved error handling of communication when reading data when a timeout occurs
- Switching to automatic operation of the temperature chip

We take care of it.



Firmware v2.6.4 Revision 18986

- Supported by WinPQ lite Version 6.2.0

Improvements and fixes

- Prevention of wrong ip address binding after update-process of the firmware
- Improvement system behavior for SSH communication
- Fixed connection limitations caused by the Zero Windows Probe algorithm
- Improvement of raw write function used to flash booter image

Firmware v2.6.0 Revision 18945

- Supported by WinPQ lite Version 6.2.0

Features and news

- New IP stack with full DNS support
- New popup notification on IPv4 Address conflict Detection – double IP adress detection
- Blocking coarse time synchronization in the system time after the start of the measurement and recording.
- DNS hostname can be used as an NTP server address parameter
- Update of the real-time operating system
- Actualization of the MappingDB with PQDIF Support

Security relevant contents

- Improvement system behavior for SSH communication (Broadcast storm protection)
- IPv4 Address Conflict Detection (RFC 5227)
- MAC Authentication Bypass as fallback for 802.1X port authentication
- Sending hostname (Option 12) to server from DHCP client
- Deletion of public keys possible

Improvements and fixes

- Improved high pass filter values of current clamps inputs
- Degree unit added for Comtrade exports
- Corrected display of the serial number
- Modbus addresses of harmonics are specifically readable
- Modbus default configuration changed
- States of measurement supervision can be read via Modbus without restart
- Corrected the handling in IEC61850 with limit violations of the 10s-frequency - new ICD file necessary!

Firmware v2.4.8 Revision 18760

- Feature and bug fix version of v2.4.6, Revision 18451
- Supported by WinPQ lite Version 6.1.0

Features and news

- Improvement of resistive residual current monitoring
- Reduced settling time for rogowski coils (C40)
- Adapted calculation of displacement voltage for halfcycle recording
- Actualization of the MappingDB

Improvements and fixes

- System behaviour for SSH communication, especially in instable mobile networks
- System behavior for IEC 61850 communication
- Comtrade files are not deleted by a reset anymore

Firmware v2.4.6 Revision 18451

- Feature and bug fix version of v2.4.4, Revision 18290
- Supported by WinPQ lite Version 5.2.8 & 6.0.0

Features and news

- Actualization of the MappingDB

Security relevant contents

- Readout of the ip-settings in the parameterization

Improvements and fixes

- Screensaver of the PQI-DE is activated by default
- Startup with activated SCADA, if the Ethernet cable is physically disabled

Firmware v2.4.2 Revision 18228

- Feature and bug fix version of v2.4.0, Revision 17795
- Supported by WinPQ lite Version 5.2.8 & 6.0.0

Features and news

- Template EN50160-NS-IT added to commissioning wizard of PQI-DA smart & PQI-DE.
- Log message about connection establishment during Modbus communication extended.
- Ethernet settings for security mode shown in device display of PQI-DA smart & PQI-DE.
- MappingDB integrated into firmware.
- Automatic long-term recording of RCM measured variables implemented when starting the RCM function.

Security relevant contents

- Modified behavior of the system tick for SSH communication.
- Stability improvements with regard to ARP storms.
- Improvement of the security vulnerability (severity 2) in the ICMP protocol.

Improvements and fixes

- Improvement of the download of COMTRADE files via IEC61850.
- Modification of the update process for PQI-DE with hardware feature E3.

We take care of it.



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