

Firmware history

Release Notes

PQ5000-MOBILE



GMC INSTRUMENTS

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Version	Change log
V3.12 - 10528 (2024/03/07)	New features <ul style="list-style-type: none"> ▪ Support for new option “Assessment of harmonic contribution” for monitoring the grid feedback of customer installations according DACHCZ regulations, IEEE519, IEEE1547, GB/T, DTR or MPQS ▪ Status of time synchronization directly visible via status bar on the device website ▪ PQ and energy management data can be downloaded in specific CSV file format to be used with PQIS® software ▪ In the PQ statistic section harmonics and interharmonics of voltages and current can be displayed as daily statistic or as time series
V3.08 – 9533 (2023/04/20)	Fixes <ul style="list-style-type: none"> ▪ IEEE519: Missing data reported although all values were present ▪ IEEE519: Wrong assessment of 3 sec. voltage harmonics if rated voltage $\geq 1\text{kV}$ ▪ IEC61000-2-4 class 3: Wrong limit value for 15th voltage harmonic
V3.06 – 9366 (2023/02/23)	Fixes <ul style="list-style-type: none"> ▪ Setting of meter contents did not work properly ▪ Reset of meter contents in case of overflow
V3.05 – 9108 (2022/11/23)	New features <ul style="list-style-type: none"> ▪ Support for compliance assessment according IEEE 519 - 2022 Fixes <ul style="list-style-type: none"> ▪ Uploading configuration files into <empty memory slot>
V3.04 – 8854 (2022/09/02)	Fixes <ul style="list-style-type: none"> ▪ Missing time scaling in report graphics if measurement period without day change
V3.04 – 8813 (2022/08/19)	New features <ul style="list-style-type: none"> ▪ Zoom functionality in PQ daily statistics ▪ Improved graphical representation of PQ statistic overview including mouse-over functionality ▪ Support for next generation USB WLAN dongle Security upgrades <ul style="list-style-type: none"> ▪ Nginx from 1.16.0 to 1.21.1 ▪ OpenSSH from 8.2p1 to 8.7p1 Fixes <ul style="list-style-type: none"> ▪ Storage of changed settings in a different configuration than the active one does not work ▪ Improved error reporting for SFTP communication test function ▪ SFTP server export not possible if file names containing UTF8 characters ▪ Wrong maximum values for THD_U ▪ Setting parameter for homopolar voltage measurement not available ▪ Wrong time stamps in CSV export of waveform display data ▪ Delayed entries to alarm and event list ▪ New Audit log entry when pending SFTP file exports complete ▪ Reset of min/max values via Modbus coils did not work ▪ Activation of whitelist blocks Modbus/TCP communication ▪ Missing data in meter logger if 1 min. interval is used

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V2.05 – 8160 (2022/03/02)	<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <p><i>Once installed, it is not possible to return to an older firmware version</i></p> </div> <p>Fixes</p> <ul style="list-style-type: none"> ▪ In rare cases an Ethernet interface connection could not be established after a factory reset or device restart ▪ Password length for SFTP server access was limited to 12 characters ▪ Configuration parameter for maximum load current (for scaling of TDD values) not available via menu ▪ Homopolar voltage (zero displacement voltage) may be displayed in event recordings for 3-wire systems.
V2.04 – 7857 (2021/12/07)	<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <p><i>This is a crucial update for the long-term stability improvement of the device. Once installed, it is not possible to return to an older version of the firmware.</i></p> </div> <p>New features</p> <ul style="list-style-type: none"> ▪ Support for Unicode characters (UTF8) in all user-defined event and description texts. These texts are used in event lists, for PQ reporting and as part of the CSV and PQDIF file names. <p>Fixes</p> <ul style="list-style-type: none"> ▪ Missing scaling for current harmonics / interharmonics in PQ daily statistic ▪ Wrong storage path for local storage of CSV data files. Files stored in the wrong directory will be transferred to the correct folder. ▪ Crash of WEB-GUI when displaying mains signaling events ▪ U_{NE} could not be displayed in event samples visualization ▪ Fault current module configuration not protected via RBAC ▪ PQ event list display could be different for local and WEB-GUI ▪ Event state in status bar was not reset if event duration was longer than 3 minutes
V2.03 – 7001 (2021/06/11)	<p>New features</p> <ul style="list-style-type: none"> ▪ EasyUpdater: Software for firmware updates ▪ Selectable periodic PQDIF format: Data in three files or one file, generated daily or weekly, either for one or 7 days ▪ PQDIF with additional frequency trend data (10-min average) ▪ Selectable decimal separator for CSV export for easy import into Excel ▪ Additional daily PQ assessment for 3-s quantities according IEEE519 <p>Fixes</p> <ul style="list-style-type: none"> ▪ Factory reset ▪ Double ITIC graphic in PQEasy report ▪ Event-driven PQDIF generation did not work ▪ Wrong scaling of instantaneous values of user defined mean-values when displayed on local GUI or webpage
V2.02 – 6518 (2021/03/08)	<p>Fixes</p> <ul style="list-style-type: none"> ▪ Factory reset not complete ▪ Mains signaling events not visible in appropriate event list ▪ Date selection not always displayed in mean-values logger display

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V2.01 – 6308 (2021/02/01)	<p>New features</p> <ul style="list-style-type: none"> ▪ Support for IPv6 communication <p>Fixes</p> <ul style="list-style-type: none"> ▪ Time difference of events in PQ-Easy report if device is located in a different time zone
V2.00 – 6162 (2020/12/04)	<p>New features</p> <ul style="list-style-type: none"> ▪ PQ Easy-Report support for IEE519 and GB/T ▪ Filters for time range and event type in PQ event list ▪ Device handbook available via webpage ▪ Language support Czech and Spanish <p>Fixes</p> <ul style="list-style-type: none"> ▪ Character set problems when creating PQ-Easy-Reports if Chinese, Ukrainian or Russian language is selected
V1.06 – 5989 (2020/10/29)	<p>Fixes</p> <ul style="list-style-type: none"> ▪ Logical error in EN50160 report summary ▪ Possible crash during report generation
V1.06 – 5800 (2020/08/19)	<p>Fixes</p> <ul style="list-style-type: none"> ▪ Non reliable UPS backup mechanism
V1.05 – 5711 (2020/08/06)	<p>New features</p> <ul style="list-style-type: none"> ▪ Security: Role-Based Access Control (RBAC) as replacement for the Simple Password Protection. Individual access rights may be assigned to up to 8 users with own login credentials. No plain-text transmission of login information, increase of the latency period in case of repeated login attempts, software access only via access keys etc. ▪ Security: Audit log as replacement for the operator list. Logging of all activities relevant to safety. ▪ Security: Support for Syslog protocol for transferring all audit log entries to a central grid monitoring server ▪ Enhanced monitoring of PQ events: Current swell, voltage imbalance (homopolar voltage) and frequency event ▪ Enhanced PQ event recording capability for waveforms: Up to 1 second before and 5 seconds after the event ▪ Additional recordings of 10-min trends of frequency and mains signaling voltage, previously available as daily histogram only ▪ New features when analyzing events via webpage: Zoom and value display ▪ New features when analyzing daily PQ trends: Values display without limits and / or min/max fluctuation ▪ PQ Easy-Report: Assessment for each multiple of 10 minutes. ▪ PQ-Easy-Report: Lower limit of no-damage region in ITIC curve configurable ▪ List of all surveys recorded with a specific configuration available via Config manager ▪ Data export scheduler for pushing CSV or PQDIF files periodically or event-driven to an SFTP server. The same files may be stored locally in the device as well. ▪ Language support Turkish <p>Fixes</p> <ul style="list-style-type: none"> ▪ Possible errors due to interrupted survey recordings ▪ Report creation using user-defined limits did not work

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V1.04 – 5343 (2020/04/16)	New features <ul style="list-style-type: none"> ▪ Support for new hardware feature: UPS (uninterruptible power supply)
V1.03 – 5261 (2020/03/19)	New features <ul style="list-style-type: none"> ▪ Language support Ukrainian ▪ Language support Russian
V1.02 – 4973 (2019/11/18)	Fixes <ul style="list-style-type: none"> ▪ Rare occurrences of wrong out of range 10-sec frequency measurements affecting the appropriate PQ statistic ▪ After device restart energy meter contents may be smaller than the values before the restart
V1.01 – 4884 (2019/09/06)	Fixes <ul style="list-style-type: none"> ▪ Non-working PQ event data export ▪ Source mismatch for operating hour counters
V1.00 – 4742 (2019/05/29)	Official product release