

Firmware history

# Release Notes

## PQ5000-MOBILE



**GMC INSTRUMENTS**

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

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

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V2.01 – 6308 (2021/02/01)	<b>New features</b> <ul style="list-style-type: none"> <li>▪ Support for IPv6 communication</li> </ul> <b>Fixes</b> <ul style="list-style-type: none"> <li>▪ Time difference of events in PQ-Easy report if device is located in a different time zone</li> </ul>
V2.00 – 6162 (2020/12/04)	<b>New features</b> <ul style="list-style-type: none"> <li>▪ PQ Easy-Report support for IEE519 and GB/T</li> <li>▪ Filters for time range and event type in PQ event list</li> <li>▪ Device handbook available via webpage</li> <li>▪ Language support Czech and Spanish</li> </ul> <b>Fixes</b> <ul style="list-style-type: none"> <li>▪ Character set problems when creating PQ-Easy-Reports if Chinese, Ukrainian or Russian language is selected</li> </ul>
V1.06 – 5989 (2020/10/29)	<b>Fixes</b> <ul style="list-style-type: none"> <li>▪ Logical error in EN50160 report summary</li> <li>▪ Possible crash during report generation</li> </ul>
V1.06 – 5800 (2020/08/19)	<b>Fixes</b> <ul style="list-style-type: none"> <li>▪ Non reliable UPS backup mechanism</li> </ul>
V1.05 – 5711 (2020/08/06)	<b>New features</b> <ul style="list-style-type: none"> <li>▪ 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.</li> <li>▪ Security: Audit log as replacement for the operator list. Logging of all activities relevant to safety.</li> <li>▪ Security: Support for Syslog protocol for transferring all audit log entries to a central grid monitoring server</li> <li>▪ Enhanced monitoring of PQ events: Current swell, voltage imbalance (homopolar voltage) and frequency event</li> <li>▪ Enhanced PQ event recording capability for waveforms: Up to 1 second before and 5 seconds after the event</li> <li>▪ Additional recordings of 10-min trends of frequency and mains signaling voltage, previously available as daily histogram only</li> <li>▪ New features when analyzing events via webpage: Zoom and value display</li> <li>▪ New features when analyzing daily PQ trends: Values display without limits and / or min/max fluctuation</li> <li>▪ PQ Easy-Report: Assessment for each multiple of 10 minutes.</li> <li>▪ PQ-Easy-Report: Lower limit of no-damage region in ITIC curve configurable</li> <li>▪ List of all surveys recorded with a specific configuration available via Config manager</li> <li>▪ 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.</li> <li>▪ Language support Turkish</li> </ul> <b>Fixes</b> <ul style="list-style-type: none"> <li>▪ Possible errors due to interrupted survey recordings</li> <li>▪ Report creation using user-defined limits did not work</li> </ul>

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