

Firmware history

Release Notes PQ1000



GMC INSTRUMENTS

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Version	Change log
V3.16 – 10900 (2024/07/23)	<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <p><i>For devices using the pulse outputs: After an update to this firmware version, the configuration of the pulse outputs is void and must be done again.</i></p> </div> <p>New features</p> <ul style="list-style-type: none"> <input type="checkbox"/> Pulse outputs can be set to any pulse rate. <p>Security upgrades</p> <ul style="list-style-type: none"> <input type="checkbox"/> Nginx from 1.21.1 to 1.25.3 <p>Fixes</p> <ul style="list-style-type: none"> <input type="checkbox"/> Large number of frequency events if used outside the rated frequency range <input type="checkbox"/> PQ overview: No graphical display for current harmonics and interharmonics <input type="checkbox"/> SFTP configuration menu was present even for device versions without data logger <input type="checkbox"/> Time scaling of waveform display could be wrong <input type="checkbox"/> In PQ statistic frequency was shown with one decimal place <input type="checkbox"/> Option PME: Possible wrong units in CSV export of PME data <input type="checkbox"/> CSV data export for 7 days: File was stored in the folder of the first day of the interval rather than the day of the end of the interval, in addition the time range of the file was not visible within the file name and could overwrite daily files with the same content.
V3.13 – 10464 (2024/02/08)	<p>New features</p> <ul style="list-style-type: none"> <input type="checkbox"/> Status of time synchronization directly visible via status bar on the device website <input type="checkbox"/> PQ and energy management data can be periodically saved in specific CSV file format and downloaded for use with PQIS® software <input type="checkbox"/> In the PQ statistic section harmonics and interharmonics of voltages and current can be displayed as daily statistic or as time series <input type="checkbox"/> Limit values can now be set also to negative values, e.g. for monitoring power quantities for both import and export <input type="checkbox"/> Option PME: Configurable radio channel map <p>Security upgrades</p> <ul style="list-style-type: none"> <input type="checkbox"/> OpenSSH from 8.7p1 to 8.9p1 <input type="checkbox"/> Host Key Algorithms SSH-RSA and SSH-DSS no longer supported by default, but may be activated if required for SFTP communication <p>Fixes</p> <ul style="list-style-type: none"> <input type="checkbox"/> Unreliable meter logger data download via WEB interface if larger time ranges are read <input type="checkbox"/> Configuration menu for temperature input settings did not work properly <input type="checkbox"/> In units of digital input meters the time factor (h) was missing <input type="checkbox"/> Option PME: Automatic adjustment of radio transmission power did not work <input type="checkbox"/> Option PME: Current I_N calculated if measuring in a 4-wire network using 3-phase modules <input type="checkbox"/> Option PME: Improved battery load level estimation
V3.10 – 9665 (2023/08/30)	<p>New features</p> <ul style="list-style-type: none"> <input type="checkbox"/> Support for option PME central unit <p>Fixes</p> <ul style="list-style-type: none"> <input type="checkbox"/> The list of CSV files created via data export scheduler could no longer be displayed via device website when too many files were stored in the device. The storage of the files and the export capability to SFTP servers were not affected. <input type="checkbox"/> U_{NE} and I_N are not calculated <input type="checkbox"/> Possible settings values for limits were restricted to a maximum of 100'000'000, now changed to 10'000'000'000.

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V3.08 – 9533 (2023/04/20)	Fixes <ul style="list-style-type: none"> <input type="checkbox"/> IEEE519: Missing data reported although all values were present <input type="checkbox"/> IEEE519: Wrong assessment of 3 sec. voltage harmonics if rated voltage $\geq 1\text{kV}$ <input type="checkbox"/> 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"> <input type="checkbox"/> Setting of meter contents did not work properly <input type="checkbox"/> Reset of meter contents in case of overflow <input type="checkbox"/> Backward compatibility to older hardware versions of the device
V3.05 – 9108 (2022/11/23)	New features <ul style="list-style-type: none"> <input type="checkbox"/> Zoom functionality in PQ daily statistics <input type="checkbox"/> Improved graphical representation of PQ statistic overview including mouse-over functionality Security upgrades <ul style="list-style-type: none"> <input type="checkbox"/> Nginx from 1.16.0 to 1.21.1 <input type="checkbox"/> OpenSSH from 8.2p1 to 8.7p1 Fixes <ul style="list-style-type: none"> <input type="checkbox"/> Improved error reporting for SFTP communication test function <input type="checkbox"/> SFTP server export not possible if file names contain UTF8 characters <input type="checkbox"/> Wrong maximum values for THD_U <input type="checkbox"/> Setting parameter for homopolar voltage measurement not available <input type="checkbox"/> Wrong time stamps in CSV export of waveform display data <input type="checkbox"/> Delayed entries to alarm and event list <input type="checkbox"/> New Audit log entry when pending SFTP file exports complete <input type="checkbox"/> Reset of min/max values via Modbus coils did not work <input type="checkbox"/> Activation of whitelist blocks Modbus/TCP communication <input type="checkbox"/> Missing data in meter logger if 1 min. interval is used
V2.05 – 8160 (2022/03/02)	<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <i>Once installed, it is not possible to return to an older firmware version</i> </div> Fixes <ul style="list-style-type: none"> <input type="checkbox"/> In rare cases an Ethernet interface connection could not be established after a factory reset or device restart <input type="checkbox"/> Password length for SFTP server access was limited to 12 characters <input type="checkbox"/> Configuration parameter for maximum load current (for scaling of TDD values) not available via menu <input type="checkbox"/> RCM channels and temperature sensor types could not be activated via on-site display

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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"> <input type="checkbox"/> 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"> <input type="checkbox"/> Missing scaling for current harmonics / interharmonics in PQ daily statistic <input type="checkbox"/> Wrong storage path for local storage of CSV data files. Files stored in the wrong directory will be transferred to the correct folder. <input type="checkbox"/> Crash of WEB-GUI when displaying mains signaling events <input type="checkbox"/> U_{NE} could not be displayed in event samples visualization <input type="checkbox"/> Fault current module configuration not protected via RBAC <input type="checkbox"/> PQ event list display could be different for local and WEB-GUI <input type="checkbox"/> Via local display input values in analog output configuration had to be entered in basic units rather than the displayed unit <input type="checkbox"/> Event state in status bar was not reset if event duration was longer than 3 minutes <input type="checkbox"/> Devices with RCM get stuck after a certain period of time
V2.03 – 7001 (2021/06/11)	Official product release of LINAX PQ1000, power quality analyzer class S, according IEC61000-4-30 Ed.3