

Firmware history

Release Notes CU5000



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"/> 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"/> 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. <input type="checkbox"/> An application stored in the device (as .zip) was deleted due to firmware update
V3.13 – 10505 (2024/02/13)	<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"/> 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 IN 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"/> For devices with data logger for periodic data: 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"/> For devices without data logger the SFTP configuration menu is displayed, although no data is available for export via SFTP <input type="checkbox"/> Possible settings values for limits were restricted to a maximum of 100'000'000, now changed to 10'000'000'000.
V3.06 – 9366 (2023/02/23)	<p>Fixes</p> <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

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V3.05 – 9108 (2022/11/23)	<p>Security upgrades</p> <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 <p>Fixes</p> <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 containing 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;"> <p><i>Once installed, it is not possible to return to an older firmware version</i></p> </div> <p>New features</p> <ul style="list-style-type: none"> <input type="checkbox"/> Support for measuring homopolar voltage (zero displacement voltage) in 3-wire systems. <p>Fixes</p> <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"/> Homopolar voltage (zero displacement voltage) may be displayed in event recordings for 3-wire systems <input type="checkbox"/> RCM channels and temperature sensor types could not be activated via on-site display
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 description texts. These texts are used as part of the CSV file names. <p>Fixes</p> <ul style="list-style-type: none"> <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"/> 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 <input type="checkbox"/> Texts for “Device location” and “Test point” could not be configured

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V2.03 – 7001 (2021/06/11)	<p>New features</p> <ul style="list-style-type: none"> <input type="checkbox"/> EasyUpdater: Software for firmware updates <input type="checkbox"/> Selectable decimal separator for CSV export for easy import into Excel <p>Fixes</p> <ul style="list-style-type: none"> <input type="checkbox"/> Factory reset <input type="checkbox"/> Wrong scaling of instantaneous values of user defined mean-values when displayed on local GUI or webpage <input type="checkbox"/> Possibly wrong display values of fault-current module if channel 1 is not used
V2.02 – 6518 (2021/03/08)	<p>Fixes</p> <ul style="list-style-type: none"> <input type="checkbox"/> Factory reset not complete <input type="checkbox"/> Non-working screensaver in power-down mode <input type="checkbox"/> Date selection not always displayed in mean-values logger display
V2.01 – 6308 (2021/02/01)	<p>New features</p> <ul style="list-style-type: none"> <input type="checkbox"/> Support for IPv6 communication <p>Fixes</p> <ul style="list-style-type: none"> <input type="checkbox"/> Non-working screensaver <input type="checkbox"/> Configuration file could not be uploaded via web-interface <input type="checkbox"/> Defining new tasks in the export scheduler not possible <input type="checkbox"/> Possibility to set improper alarm limits for fault-current module via local GUI
V2.00 – 6162 (2020/12/04)	<p>New features</p> <ul style="list-style-type: none"> <input type="checkbox"/> 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. <input type="checkbox"/> Security: Audit log as replacement for the operator list. Logging of all activities relevant to safety. <input type="checkbox"/> Security: Support for Syslog protocol for transferring all audit log entries to a central grid monitoring server <input type="checkbox"/> New features when analyzing events via webpage: Zoom and value display <input type="checkbox"/> 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. <input type="checkbox"/> Language support Turkish, Czech and Spanish <input type="checkbox"/> Device handbook available via webpage <input type="checkbox"/> On further firmware updates the Codesys application will no longer be deleted <input type="checkbox"/> Available random access memory for storage of process variables ($\leq 50\text{MB}$) is checked during compilation in the Codesys environment.
V1.16 – 5261 (2020/03/19)	<p>New features</p> <ul style="list-style-type: none"> <input type="checkbox"/> Language support Ukrainian <input type="checkbox"/> Language support Russian <p>Requirements</p> <ul style="list-style-type: none"> <input type="checkbox"/> At least updater v2.0 is required for firmware update

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V1.15 – 4973 (2019/11/18)	<p>Fixes</p> <ul style="list-style-type: none"> <input type="checkbox"/> After device restart energy meter contents may be smaller than the values before the restart <p>Requirements</p> <ul style="list-style-type: none"> <input type="checkbox"/> At least updater v2.0 is required for firmware update
V1.14 – 4884 (2019/09/06)	<p>New features</p> <ul style="list-style-type: none"> <input type="checkbox"/> Encrypted communication via HTTPS using either a provided self-signed or customer certificate <input type="checkbox"/> Client whitelist: User may define a list of up to 10 clients allowed to access the device. If activated, all other clients will be blocked <input type="checkbox"/> Enhanced SD card state information (percent of usage, failure state) <p>Requirements</p> <ul style="list-style-type: none"> <input type="checkbox"/> At least updater v2.0 is required for firmware update
V1.13 – 4544 (2019/03/15)	<p>New features</p> <ul style="list-style-type: none"> <input type="checkbox"/> Support for optional temperature input module <p>Requirements</p> <ul style="list-style-type: none"> <input type="checkbox"/> At least updater v2.0 is required for firmware update
V1.12 – 4386 (2019/02/28)	<p>New features</p> <ul style="list-style-type: none"> <input type="checkbox"/> Network status display in status bar <input type="checkbox"/> Signalling of measuring range overflow situations <input type="checkbox"/> Whitelist for Ethernet interface for blocking unauthorized clients <p>Fixes</p> <ul style="list-style-type: none"> <input type="checkbox"/> Improvements in CSV file export <p>Requirements</p> <ul style="list-style-type: none"> <input type="checkbox"/> At least updater v2.0 is required for firmware update
V1.11 – 4213 (2019/02/06)	<p>Fixes</p> <ul style="list-style-type: none"> <input type="checkbox"/> Mismatch in alarming of fault current channels in slot 2 <p>Requirements</p> <ul style="list-style-type: none"> <input type="checkbox"/> At least updater v2.0 is required for firmware update

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V1.10 – 3864 (2018/11/16)	<p>Associated device package</p> <ul style="list-style-type: none"> <input type="checkbox"/> V1.10.1.194 <p>New features</p> <ul style="list-style-type: none"> <input type="checkbox"/> Support for RETAIN variables (non-volatile memory), up to 1000 bytes, for all performance classes <input type="checkbox"/> Free usable CODESYS Modbus registers (4x: 48528 – 48655; 0x: 60 – 75) can now also be written via CODESYS application <input type="checkbox"/> Usage of RS485 interface programmable, either as Modbus/RTU slave or for CODESYS as Modbus/RTU master <input type="checkbox"/> Release of Performance class PROFESSIONAL including <ul style="list-style-type: none"> <input type="checkbox"/> Support for user-defined WEB visualizations (WebVisu) <input type="checkbox"/> Support for user-defined visualizations on the local display (TargetVisu) for device versions with display <input type="checkbox"/> Data logging via CODESYS application: Up to 20 BOOL, 20 REAL and 20 LREAL variables with freely definable names and units <p>Fixes</p> <ul style="list-style-type: none"> <input type="checkbox"/> Disturbance logger data could not be loaded on the local display (if present) <input type="checkbox"/> Measurements with bad quality (such as overload) could have been stored as minimum or maximum value <p>Requirements</p> <ul style="list-style-type: none"> <input type="checkbox"/> At least updater v2.0 is required for firmware update
V1.09 – 3280 (2018/08/12)	<p>Associated device package</p> <ul style="list-style-type: none"> <input type="checkbox"/> V1.9.1.140 <p>New features</p> <ul style="list-style-type: none"> <input type="checkbox"/> Support for optional IEC61850 communication <p>Requirements</p> <ul style="list-style-type: none"> <input type="checkbox"/> At least updater v2.0 is required for firmware update
V1.08 – 3224 (2018/07/26)	<p>Associated device package</p> <ul style="list-style-type: none"> <input type="checkbox"/> V1.8.1.148 <p>New features</p> <ul style="list-style-type: none"> <input type="checkbox"/> Language support Vietnamese <p>Fixes</p> <ul style="list-style-type: none"> <input type="checkbox"/> In case of aborting the configuration of fault current channels some parameters were still saved by mistake <input type="checkbox"/> The local display could freeze when disconnecting the Ethernet interface connector <p>Requirements</p> <ul style="list-style-type: none"> <input type="checkbox"/> At least updater v2.0 is required for firmware update

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V1.07 – 3171 (2018/06/28)	<p>Associated device package</p> <ul style="list-style-type: none"> <input type="checkbox"/> V1.7.1.136 <p>New features</p> <ul style="list-style-type: none"> <input type="checkbox"/> Support for new 2-channel fault current module: <ul style="list-style-type: none"> - Alarm and pre-warning thresholds - Response and dropout delays - Alarming via digital outputs and relays - Alarming or breakage activates the summary alarm - In case of alarm violation: Entry into alarm list - In case of pre-warning violation: Entry into event list - Measurements available via WEB-interface, Modbus RTU/TCP, local display and analog outputs <input type="checkbox"/> Language support Polish <p>Fixes</p> <ul style="list-style-type: none"> <input type="checkbox"/> New color sequence of phases in graphical displays: red - yellow - blue <input type="checkbox"/> Demo mode for product presentations fixed <input type="checkbox"/> Summary alarm state no longer influenced by reset of associated output <input type="checkbox"/> Modbus/RTU master functionality <p>Requirements</p> <ul style="list-style-type: none"> <input type="checkbox"/> At least updater v2.0 is required for firmware update
V1.06 – 2958 (2018/05/07)	<p>Associated device package</p> <ul style="list-style-type: none"> <input type="checkbox"/> V1.6.1.97 <p>New features</p> <ul style="list-style-type: none"> <input type="checkbox"/> Phase sequence display for voltages and currents <input type="checkbox"/> In the visualization of user mean-values and meters now the base quantity is directly visible <input type="checkbox"/> New service menu: Device reboot <input type="checkbox"/> Support for time synchronization via GPS <input type="checkbox"/> Unused U/I quantities in waveform and event displays are faded out <input type="checkbox"/> Language support Chinese <p>Fixes</p> <ul style="list-style-type: none"> <input type="checkbox"/> For mean-values modifications a device reboot was required <input type="checkbox"/> Overwriting of security settings when loading configuration file even if not selected <input type="checkbox"/> Time / date setting via local display <input type="checkbox"/> Missing support for optional digital inputs in Codesys <p>Requirements</p> <ul style="list-style-type: none"> <input type="checkbox"/> At least updater v2.0 is required for firmware update

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V1.05 – 2468 (2017/12/18)	<p>Associated device package</p> <ul style="list-style-type: none"> <input type="checkbox"/> V1.5.1.78 <p>New features</p> <ul style="list-style-type: none"> <input type="checkbox"/> Release of Performance class ADVANCED including <ul style="list-style-type: none"> <input type="checkbox"/> User definable Modbus image with up to 1000 registers for measurement data and up to 200 status information <input type="checkbox"/> Modbus/RTU master functionality (via optional RS-485) <input type="checkbox"/> Modbus/TCP master functionality (via Ethernet) <input type="checkbox"/> Extensive library with predefined Modbus devices <input type="checkbox"/> New communication tests: PING, DNS, NTP <input type="checkbox"/> Support for time functions and other time sequences <p>Fixes</p> <ul style="list-style-type: none"> <input type="checkbox"/> Correction of manual time setting <p>Requirements</p> <ul style="list-style-type: none"> <input type="checkbox"/> Updater v2.0 is required for firmware update
V1.04 – 2378 (2017/11/17)	<p>Associated device package</p> <ul style="list-style-type: none"> <input type="checkbox"/> V1.4.1.52 <p>New features</p> <ul style="list-style-type: none"> <input type="checkbox"/> Support for optional module “4 digital inputs” active / passive <input type="checkbox"/> Support for optional UPS module <p>Fixes</p> <ul style="list-style-type: none"> <input type="checkbox"/> Removing a backdoor security gap <input type="checkbox"/> Wrong unit in disturbance logger when used in medium voltage applications <input type="checkbox"/> Partly hang-up on webpage when closing popup window with answer “No” or “x” <input type="checkbox"/> CSV export of large logger data sets Disturbance logger: Event detection in 3 phase 3 wire applications <p>Requirements</p> <ul style="list-style-type: none"> <input type="checkbox"/> Updater v2.0 is required for firmware update
V1.03 – 2194 (2017/09/21)	<p>Associated device package</p> <ul style="list-style-type: none"> <input type="checkbox"/> V1.3.1.29 <p>New features</p> <ul style="list-style-type: none"> <input type="checkbox"/> Minimum cycle time for main task reduced to 20ms <input type="checkbox"/> Main task may be synchronized to instantaneous values creation <p>Fixes</p> <ul style="list-style-type: none"> <input type="checkbox"/> Stability of data logger functionality <input type="checkbox"/> Improvement of device startup behavior <input type="checkbox"/> Event text input issue when using special symbols <input type="checkbox"/> Summary alarm state may remain active when removing monitoring functions from the status evaluation <input type="checkbox"/> Endless hourglass symbol on empty event lists <input type="checkbox"/> Minor bug fixes <input type="checkbox"/> Faster reaction time for analog / digital outputs <p>Requirements</p> <ul style="list-style-type: none"> <input type="checkbox"/> Updater v2.0 is required for firmware update

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V1.02 – 1795 (2017/05/12)	<p>Associated device package</p> <ul style="list-style-type: none"> □ V1.2.0.219 <p>New features</p> <ul style="list-style-type: none"> □ startup (faster) <p>Fixes</p> <ul style="list-style-type: none"> □ stability of configuration data <p>Requirements</p> <ul style="list-style-type: none"> □ Updater v2.0 is required for firmware update
V1.01 - 1547	<p>Associated device package</p> <ul style="list-style-type: none"> □ V1.0.158.0 <p>Initial release BASIC edition</p>
V1.00 - 1394	Initial release for internal demo use