



CoreSense™

Release Notes

AA011983-01 Rev M



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1. CoreSense Software

1.1 Version 2.3.0 AA011983-01 Rev M

1.1.1 Available Packages

- [CoreSense_2.3.0.zip](#): Wipe install package
- [CoreSense_2.3.0_Upgrade.zip](#): Update package
- [USBKey-H2UpdateFirmware_3.966J.zip](#): Hydrogen sensor firmware update package

1.1.2 Release summary

- New feature:
 - Add support for new FLASH memory hardware

1.1.3 Important notes for installation

- System with manufacture date starting from April 23rd will need version 2.3.0 and higher to operate.
- Version 2.3.0 can be installed over any previous version.
- Update to version 2.3.0 is not required for system using version 2.2.2.
- Beginning with version 2.1.0, the database keeps only the last 4 months of measurements. It is therefore recommended to [backup data](#) before proceeding with the upgrade. Please refer to the User's guide for detailed instructions on how to proceed.
- Use [CoreSense_2.3.0.zip](#) for any new installation.
- Use [CoreSense_2.3.0.zip](#) for an installation that resets and wipes the database and configuration file of the CoreSense. All existing data will be lost.
- Use [CoreSense_2.3.0_Upgrade.zip](#) to update software keeping measurements database and configuration file.
- Use [USBKey-H2UpdateFirmware_3.966J.zip](#) to update the hydrogen sensor's firmware (if required)

1.1.4 Installation Procedure

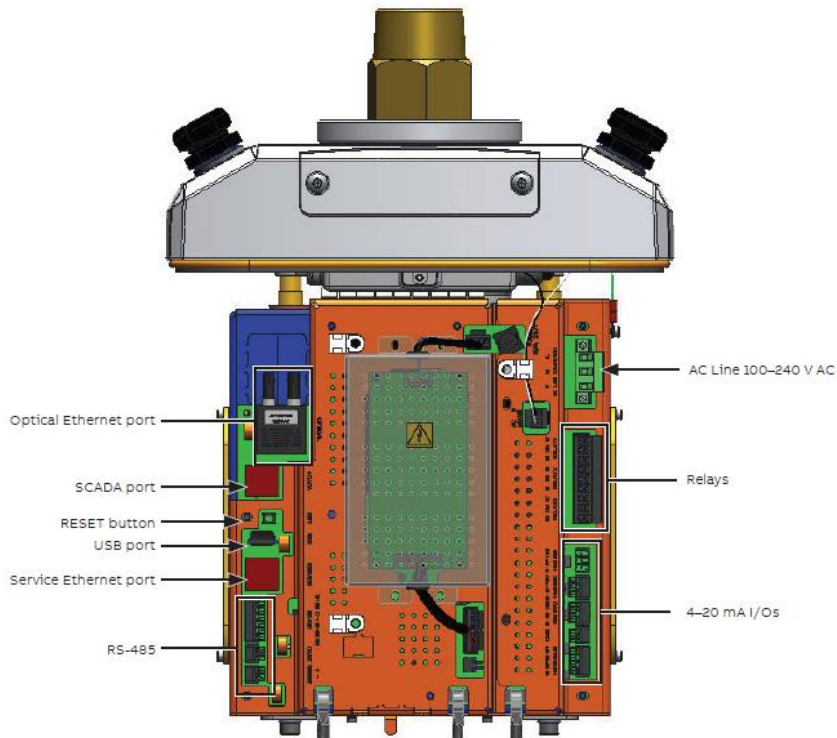
- **Preparation of installation USB keys:**
 1. Obtain the CoreSense software images from Hitachi Powergrids or ABB Library (see 1.1.1);
 2. Extract [CoreSense_2.3.0.zip](#) or [CoreSense_2.3.0_Upgrade.zip](#) on a first USB key, making sure NOT to create a folder (install at the root of the USB filesystem);
 3. Extract [USBKey-H2UpdateFirmware_3.966J.zip](#) on a second USB key, making sure NOT to create a folder (install at the root of the USB filesystem).

- **Software Installation:**

1. Release the retaining screws from the enclosure cover with a 5 mm Allen key and remove the enclosure cover.

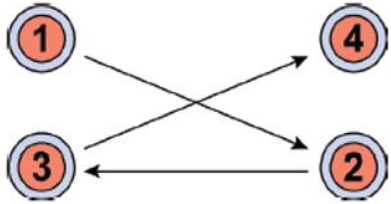


2. Insert the first USB key in the USB port, press the reset button and wait for the software update process to complete (the SYSTEM LED will blink YELLOW during the process). The SYSTEM LED will blink RED if the installation fails. Contact Hitachi Powergrids in such a situation.
3. Once the SYSTEM LED blinks GREEN, remove the USB key and press the RESET button.



4. Connect to the web interface and make sure the software has been updated to the correct version (Help tab);
5. Insert the second USB key in the USB port, press the reset button and wait for the software update process to complete (the SYSTEM LED will blink YELLOW during the process). The SYSTEM LED will blink RED if the installation fails. Contact Hitachi Powergrids in such a situation.
6. Once the SYSTEM LED blinks GREEN, remove the USB key and press the RESET button.
7. Discard and replace the o-ring, making sure the it is well-fitted in the groove of the front cover;
8. Put the sensor cover back in place, making sure pressure is evenly applied on the o-ring (to maintain the IP67 rating);

- Secure fasteners in an alternate pattern (see below). Start all bolts by a few threads, and run them hand-tight. Tighten mildly by hand, then to a torque of 8.1 N·m (6.0 lbf·ft).



- Once reboot has completed, it might be necessary to reconfigure the instrument name and alarm/warning configurations, depending on the installation image used;
- Make sure to enable the thermal pump in Settings -> Administration Settings (never start thermal pump when oil pan is empty);
- For 120V installations, the “Enable heater 120V mode” should be checked to ensure proper thermal pump operation (It shall be disabled on 240V installations to limit the power applied to the thermal pump heater).

1.2 Version 2.2.2 AA011983-01 Rev L

1.2.1 Available Packages

- [CoreSense_2.2.2.zip](#): Wipe install package
- [CoreSense_2.2.2_Upgrade.zip](#): Update package
- [USBKey-H2UpdateFirmware_3.966J.zip](#): Hydrogen sensor firmware update package

1.2.2 Release summary

- Fixed Issues:
 - Hydrogen sensor communication alarm management (CSII-340)
 - Moisture sensor measurement issue (CSII-367)
- New feature:
 - Output Activity in Water (AW) on analog output 4-20mA (CSII-354)

1.3 Version 2.2.1 AA011983-01 Rev K

1.3.1 Available Packages

- [CoreSense_2.2.1.zip](#): Wipe install package
- [CoreSense_2.2.1_Upgrade.zip](#): Update package
- [USBKey-H2UpdateFirmware_3.966J.zip](#): Hydrogen sensor firmware update package

1.3.2 Release summary

- New features:
 - Display current value for Activity in Water (AW) on main Dashboard and History page (CSII-337)

1.4 Version 2.2.0 AA011983-01 Rev J

1.4.1 Available Packages

- [CoreSense_2.2.0.zip](#): Wipe install package
- [CoreSense_2.2.0_Upgrade.zip](#): Update package
- [USBKey-H2UpdateFirmware_3.966J.zip](#): Hydrogen sensor firmware update package

1.4.2 Release summary

- New features:
 - Addition of a simulation mode to force values of hydrogen, humidity, 4-20 mA inputs/outputs as well as relays. These forced values are transmitted by means of the protocols activated on the device so that the customer can do the complete verification of the data transmission to his SCADA / DCS. (CSII-312).

- Version 2.2.0 also includes new features and fixed issues brought in version 2.1.0 (see §1.2.2 below).

1.5 Version 2.1.0 AA011983-01 Rev H

1.5.1 Available Packages

- [CoreSense_2.1.0.zip](#): Wipe install package
- [CoreSense_2.1.0_Upgrade.zip](#): Update package
- [USBKey-H2UpdateFirmware_3.966J.zip](#): Hydrogen sensor firmware update package

1.5.2 Release summary

- New features:
 - Data is stored in the CoreSense database for a period of 4 months. After update, only 4 months of data will be kept. Back up or export is recommended when possible. (CSII-229).
 - Important update for heater management:
New option on web HMI (Settings -> Administration Settings) to indicate if thermal pump heater is powered on 120V or 220V. The “Enable heater 120V mode” should be checked on 120V installations to ensure proper thermal pump operation. It shall be disabled on 240V installations to limit the power applied to the thermal pump heater (CSII-293).
- Fixed Issues:
 - Database size: after more than 4 months, instrument was not able to export properly. (CSII-229).
 - Heater management: under certain conditions, heating element could rise above recommended limit (CSII-293)

Contact us



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