



Premstätten, March 14, 2018

Customer Information CN02-2018

Change to firmware application version to manage consistency of the eCO₂ / TVOC readings during initial device operation and extend the output range

Dear Customer,

Please be informed that ams has changed the CCS811 firmware application version which affects the following products:

- CCS811B-JOPD500
- CCS811B-JOPR5K

More details changes as follows:

Firmware Application Version:

The firmware application version stored in the FW_App_Version register located at address 0x24 will change from 1.1.0 to 2.0.x. In version 2.0.x the following device improvements will be supported:

- Manage the burn-in period allowing eCO₂ and TVOC readings to be used from first power-on after 60minutes of operation
- Extend eCO₂ maximum output value from 8194ppm to 64000 ppm
- Extend TVOC maximum output value from 1187ppb to 64000 ppb

This new application firmware is software compatible with the existing CCS811 silicon.



Change to Programming Guide:

Size of the THRESHOLDS register located at 0x10 has changed from 5bytes to 4bytes. Byte 4 to set the hysteresis value is no longer supported. The hysteresis value is now fixed at 50ppm for eCO₂ values. Please refer to the CCS811 datasheet and programming guide, application note AN000369 for more details.

Qualification Strategy:

No qualification required.

Target Date of Implementation:

16th April 2018

Sample Availability:

No change to fit, form and function of the product. Samples available for customer evaluation and qualification. New firmware application version 2.0.0 can be downloaded directly onto existing CCS811 silicon via I²C. Please refer to the CCS811 Downloading new Application Firmware application note AN000371 for more details.

Risk Assessment:

Low

Please be advised that unless you submit written refusal to this CN within 30 days, the CN shall be deemed accepted.

If you do have further questions, please do not hesitate to contact me.

Best Regards,

Paul Wilson
ams AG
Senior Marketing Manager