

VisiFerm DO SU Family Firmware Release Notes

Firmware Release: ODOUM074 (August 2021)

For all VisiFerm DO SU sensors with FW release number 070 and higher (Ref: 243258, 10078255, 10087920). The VisiFerm DO SU firmware upgrade may be done on site by our Technical Support.

New Feature / Topics	Description	Advantage
New single use cap	The firmware change enables the selection of the additional ODO Cap S3	The new S3 cap is selectable

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New Feature / Topics	Description	Advantage
Bootloader start-up time reduced	High bootloader start-up time leads to communication errors within the Modbus protocol	Reduced communication failures on bus during start-up
Pre-initialized values for PMC1 and PMC6	When the sensor starts up the values for PMC1 and PMC6 are pre initialized	No error messages due to null values during start-up phase
Optimization of Modbus communication	Modbus communication was optimized to prevent character framing errors	Reduced communication errors when using Modbus to communicate with the sensor

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The calibration values for Phase 0 will be used correctly for the calculation of the oxygen value. After initial calibration and after production of the VisiFerm, the temperature register for calibration point 1, is changed to 25 °C.

New Feature / Topics	Description	Advantage
Initialization of product calibration is corrected (Bug)	Calibration coefficients after temperature compensation are stored correctly	The calibration data is stored and compensated to 25 °C correctly. The calculation of the calibration data ensures a correct oxygen reading.

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New Feature / Topics	Description	Advantage
New single use caps included	The firmware change enables the writing of different caps (ODO Cap S0 and ODO Cap S2)	The new firmware enables the use of different single use ODO Caps (see also Quick Guide VisiFerm DO SU Sensors)
Cancelling product calibration (Bug)	Incorrectly read registers after a product calibration is solved. After deleting the product calibration the Stern-Volmer coefficient and Phase 0 are output correctly. The issue where registers are read incorrectly after a product calibration is solved.	The calibration data after deleting a product calibration will be restored correctly
Incorrect display of Phase 0 after product Calibration (Bug)	After product calibration the default values for Phase 0 is displayed.	After product calibration the correct unchanged Phase 0 is displayed.

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