RELEASEnotes

Embedded Weighing Electronics and signal conditioner

Thank you for choosing HBK's weighing electronic and the related software. This Firmware is used in following products: AD103C and the AED-series including the AD103C board.

Important: Due to Legal-For-Frade regulations, Firmware- Updated or Downgrades are only allowed by HBK internally.

Please be aware, that depending of the FW-version you need the related ESD-file for the CAN- and DeviceNet - interface. EDS-files can be downloaded from the related HBM product-website.
For the RS485-interface, there is no device-description-file necessary.

Your feedback is important for HBK. If you encounter any problems or suggestions to improve the weighing electronics, please let us know.

You can contact our team of support engineers directly at http://www.hbm.com/support

Version Overview

Version	Release Date	Issue Type (Feature/BugFix)	Description
vP71	04.08.2005	BugFix	Errors in the serial communication (UART) with Select and BUS output have been eliminated.
vP72	16.09.2005	BugFix	Communication error in the diagnostic interface eliminated.
		Feature	Terminate a string input started with " with lf (Line Feed) without waiting for the 2nd ".
		Feature	Extension of the dosing functions.
vP73	09.05.2006	BugFix	Elimination of errors within the scope of NMI approval.
		BugFix	Elimination of errors in CAN/DeviceNet communication.
		Info	A detailed description of the changes from P72 to P73 can be found in document
vP74	14.07.2006	BugFix	Various errors in communication and in saving settings have been eliminated.
		Info	The document "Error listP73 on P74_intern.doc" contains a detailed description of the changes from P73 to P74.
vP75	16.08.2006	BugFix	Sporadic error in receipt output eliminated.
		Feature	Improved response behaviour in partial active mode.
		BugFix	Error in theDTR generation at 9600Bd HSM0; ICR0; FMD0; eliminated.
		BugFix	Error in address switchingwith S98 and running MSV eliminated.
		Feature	For FIT, BIT 7 must be set to alarm in the measured value status at IMD2 (dosing) CSM0 (standard status). must be set.
vP76	06.09.2006	BugFix	If the factory characteristic curve of the FIT has been linearised with LIS, after Power On the The reason for this is that the LIS parameters are not initialised during power on.
vP77_0	21.09.2006	Bugfix	Errors in the status bits depending on SDF have been removed.

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		Feature	The limit value max+9d is now only calculated depending on RSN.
		Feature	In the TYP command, the 3rd digit of the version is now displayed.
vP77_1	13.12.2006	Feature	A bootloader has been integrated into the software.
		Feature	Taring no longer takes place with power on and IMD=1.
		Feature	The tare pulse has been inverted for compatibility reasons. A sub-version number.
vP77_2	31.01.2007	BugFix	Bug in bootloader fixed.
vP77_3	27.02.07	Feature	New function zeroing by time started with a trigger event. Command CDT.
		BugFix	Error in dyn Zerotracking (it only worked after plus) removed.
		BugFix	Repeated triggering during the MAV measured value only leads to one trigger result, not to 2 results.
vP77_4	09.05.2007	BugFix	After TAR; command, the TARA value is not saved with TDD1;.
		Feature	The setting range of the TRF command has been extended to 10%.
		BugFix	The trigger factor is now also PRE-trigger (previously only POST-trigger).
vP77_5	06.12.2007	Feature	Extension of the VCT and MUX commands at the customer's request.
		Info	Description in "Improvement, error list P77.4 on P77.5 .doc".
vP77_6	11.11.2008	Feature	User encryption added.
		BugFix	Error in HBM encryption removed.
		BugFix	Bug in filter initialisation FMD1 removed.
vP77_7	17.12.2008	Feature	Diagnostic channel opened for write access.
		Feature	Encryption of the measured values via main or diagnostic channel possible.
		BugFix	Authentication for encryption corrected.
		Feature	The setting options for zero tracking have been extended from the previous 0 and 1(0.5d/s) to 2(1d/s), 3(2d/s) and 4(5d/s).
vP77_8	25.09.2009	BugFix	Errors in connection with the encryption and the diagnostic interface eliminated.
		Feature	Commands in the dosing control newly implemented DL1 and DL2 as well as OMD extended.
		BugFix	Output 5,6 are no longer reset in dosing with OMD>0 with break.
vP77_9	05.02.2010	Feature	Grading Scale
		Feature	Classifying scale (commands AT1..4 and DT1 ... 4) Multihead Combination Weigher.
		Feature	Multihead weigher (commands: MVC, RTB, TVT, TST, TSL) Filter mode FMD5 with moving averaging (command MAC).
		Feature	the possibility of shifting the external post-trigger via an adjustable delay (PTD command) and the encrypted transmission of the dosing/trigger results.
		BugFix	SYD Input now positive and negative values also for CAN/Device Net) DeviceNet Poll Request , it is now also answered if an empty identifier is sent.

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		BugFix	MAV values are now also output via the diagnostic channel, which was not possible up to and including P77.8.
vP78_0	05.03.2010	BugFix	Problem with watchdog timeout of explicit connection solved.
		Feature	DZT (Dynamic zero tracking) extended to DZT3=10d and DZT4=20d.
vP78_1	16.02.2011	Feature	The output delays of outputs 1...4 ATx, DTx are now also recognisable in the limit value status. recognisable.
		Feature	GRU command has been implemented again. The default GRU address is now 90 AD is not assigned to any group.
		BugFix	Error in DL1, DL2 removed (DL1, DL2 were set to the last set time (not to input).
		BugFix	Retrigger function of the Multihead Combination weigher MHC changed. The retrigger function now remains active until the trigger stop level TSL is undershot.
		Feature	Tare mode has been extended to TMD=2. With TMD=2, every input signal is tared regardless of the weight. It is only monitored that tare value + fill weight < overflow. With EWT (empty weight) and MSW (minimum start weight), the tare range can be limited in this mode. taring range in this mode.
vP78_2	26.10.2011	BugFix	Error in GRU command removed, only relevant for Amann.
vP78_3	15.03.2013	BugFix	Error in the blind breakage monitoring removed. Error in standstill detection eliminated. Error CDT removed. Various unused commands removed.
		Feature	Fine current prediction installed. Display range for LFT1 changed. The key can now be entered for encryption. New dosing alarm installed. Fine current and coarse current cut-off point can be set to the same value. Change only relevant for customer Kosme.
vP78_4	25.04.2014	BugFix	Error in Explict Message Service DeviceNet removed.
vP78_5	27.02.2015	BugFix	Incorrect output rate eliminated.

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