

VEGAPULS 69 HART

Version, available since	Description	Device Rev.
1.3.2, 10/2019	 Error corrections: Instrument software, in general: Sensor occasionally showed F040 in case of strong disturbances on the supply lines and no longer carry out measurements 	3
1.3.1, 02/2018	 Error corrections: Instrument software, in general: Correction of an error with activated echo curve memory (sensor restarted every 2.5 min. after a voltage interruption and outputted a fix measured value) 	3
1.3.0, 09/2017	Function extensions New functions and modifications: - Measurement function revised for instruments with 1½" metal horn antenna - Instrument software, in general: - Optimization of the sensor start and reset times - HART communication: - The following additional Common Practice Commands are supported - CMD 33 'Read Device Variables' - CMD 36 'Set Primary Variable Upper Range Value' - CMD 37 'Set Primary Variable Lower Range Value' - CMD 40 'Enter/Exit Fixed Current Mode' - CMD 42 'Perform Device Reset' - CMD 45 'Trim Loop Current Zero' - CMD 51 'Write Primary Variable Transfer Function' - CMD 53 'Write Device Variable Assignements' - CMD 53 'Write Device Variable Assignements' - CMD 54 'Read Device Variable Information' - CMD 34 'Write PV Damping Value' - CMD 34 'Write PV Damping Value' - CMD 34 'Write PV Range Values' Error corrections: - Measurement function: - Determination of the limitation of the detection begin revised - Measured value stability improved	3



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	 A wrong loop current was outputted when the scaled measured value corresponded to a distance unit was assigned to the current output Instrument software, in general: When switching off the sensor directly after creating a gating out of false signals, it could happen that it was not completely saved Software ruggedness improved to avoid potential crashes: in case of low energy and active measured value and echo curve memory in case of interferences on the supply cable in case of continuous adjustment tool enquiries during the sensor start While reading out a full measured value memory Measured value memory could probably not be read out when the sensor time was changed after the reocrding start To undo a software update, it was absolutely necessary to re-start the sensor between the two updates PLICSCOM adjustment:	
1.2.0, 02/2017	 Function extensions New functions and modifications: Measurement function: Application setting "First large echo" revised Instrument software, in general: Reset and sensor cycle time optimized PLICSCOM adjustment: Information "First setup of PLICSCOM" is no longer entered in the event memory Error corrections: Measurement function: The customer false signal suppression can no longer be below the factory false signal suppression Echoes at the end of the detection range with safeties can now be detected correctly Adjustment is now reset correctly Instrument software, in general: Sensor behaviour with EMC interferences improved Sensor starts now also with wrong delivery status Measured value memory can be also read out with active echo curve memory 	2



Version, available since	Description	Device Rev.
	 PLICSCOM adjustment: The remote PLICSCOM is no longer switched off for approx. 10 s after sensor start Sensor name is now also displayed correctly in Russian language Error removed in the function "Copy instrument data": it could happen that the function is never ending Fault rectifications in the Chinese menu 	
1.1.0, 12/2015	 Function extensions New functions and modifications: Measurement function: Behaviour default false signal suppression and customer false signal suppression revised: the default false signal suppression has no effect after a customer false signal suppression was created Instrument software, in general: Sensor delivers useful limit values (instead -99999, +99999) for the scaled measured value PLICSCOM adjustment: Additional menu languages: Japanese and Chinese The display format can be adjusted HART communication: Optimization of the transmission times (e.g. of echo curves) Introdcution of additional Common Practice Commands CMD 34 Write Primary Variable Damping Value CMD 35 Write Primary Variable Damping Value CMD 44 Write Primary Variable Range Values CMD 44 Write Primary Variable Inits Introduction Burst Mode acc. to HART 5 Error corrections: Measurement function: When deleting the false signal suppression, it is also possible to enter a range [begin, end] with "Begin" larger than "End" Change of behaviour when limiting the measurement point Measured value correction due to echo shape revised to reduce measured value jumps with changes in the application setting Instrument software, in general: Error "permanent restart with active echo curve memory" removed Error "Echo curve of the setup will not be deleted by a reset to basic settings or delivery status" Start and stop condition action of the measured value and echo curve memory with the unit 	2
	"ms" – Various unit conversion errors removed – PLICSCOM adjustment:	



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	 Error "X zoom of the echo curve presentation does not function correctly" corrected HART communication: Changes through following HART Commands are now also recorded in the parameter change memory CMD 17 Write Message CMD 18 Write Tag, Descriptor CMD 22 Write Long Tag Global modification counter is now incremented also with a change with CMD 18 "Write Tag, Descriptor, Date" While reading out the dynamic variables via HART CMD 9 "Read Device Variables with Status", the returned codes of the measured values did not correspond to the dynamic variables but to the device variables. With this fault rectification, the software works also with the Emerson Charm Unit. While enquiring unsupported Device Variables via HART CMD 9 "Read Device Variables with Status" the sensor answered with error status "Invalid Selection" instead delivering the special value "Not-A-Number". HART enquiries during a reset to basic adjustment will now all be answered 	
1.0.1, 09/2014	 Error correction of the first production version New functions and modifications: Measurement function: Determination of the noise level Safeties, false signal suppression increased Switching over point close and far range optimized and hysteresis implemented Amplitude correction STC adapted Error corrections: In deleted areas of the false signal suppression this import was not accepted by the sensor Tracking and finding of echoes below the false echo memory was not possible if there was not at least one small echo outside the focussing range visible. HART communication: More than 8 device variables must be enquired with the HART command #009 (only the first 8 variables are returned) 	1
1.0.0, 07/2014	First version New functions: – Measurement function: – Applications bulk solids – Measuring range 120 m – Frequency range 79 GHz – Instrument software, in general:	1



Version, available since	Description	Device Rev.
	 Device status according to NE 107 Event memory Measured value memory Real time clock PLICSCOM adjustment: 	
	 The following languages are available: German English French Spanish Russian Italian Dutch Portuguese Czech Polish Turkish 	
	 HART communication: HART Revision 7 HART measured values can be configured 	

Legend:

Name	Description
Version	Compatibility version.Function extension version.Error correction version
available since	Month/Year
Device Rev.	Version number of the instrument defined by HART. Consecutive integral number Will be increased if in the "Application Layer" modifications were carried out, e.g. new commands, modifications in the data structure in a command.