

VEGAPULS 60

For hardware versions > 2.0.0

Version, available since	Description	Device Rev.
4.5.2, 08/2016	Error corrections: <ul style="list-style-type: none"> – Instrument Software, in general – Error message F080 in conjunction with PLICSCOM removed – I²C bus speed adapted 	5
4.5.1, 08/2011	Error corrections: <ul style="list-style-type: none"> – Instrument Software, in general – Error correction after SW update with instruments produced at VEGA Americas – PLICSCOM adjustment – Error correction with scaling units for the Japanese market 	5
4.5.0, 06/2011	Short description of the version New functions and modifications: <ul style="list-style-type: none"> – Signal processing – Gating out of false signals increased when creating – Algorithm with mobility detection optimized – Instrument Software, in general – Limitation of the sensor and scaling units for Japan added – Adjustable current consumption of the sensor electronics with 4-wire operation – PLICSCOM adjustment – Language Japanese added – HART communication – Device Revision increased from 4 to 5 – HART SW Revision increased from 4 to 5 – Burst Mode commands can be activated by means of parameters Error corrections: <ul style="list-style-type: none"> – Signal processing – Assignment of the Echo ID corrected – Instrument Software, in general – The function overflow protection could not be switched off – The pointer displayed too high negative values – Error in the threshold value presentation with large detection offset – PLICSCOM adjustment – Echo curve presentation only up to vessel height + safety 	5

Version, available since	Description	Device Rev.
	<ul style="list-style-type: none"> - HART communication - Transmission problems with cyclical changes of the linearization curve via HART - Error correction for HART certification 	
<p>4.4.1, 02/2011</p>	<p>Error correction measured value presentation in unit "ft" Error corrections:</p> <ul style="list-style-type: none"> - PLICSCOM adjustment - Sign missing with negative filling heights in unit "ft" - Indication of the semiquaver was missing with filling heights in unit "ft" 	<p>4</p>
<p>4.4.0, 10/2010</p>	<p>Function extension and error correction of the sensor software New functions and modifications:</p> <ul style="list-style-type: none"> - Signal processing <ul style="list-style-type: none"> - New function overflow protection - Instrument Software, in general <ul style="list-style-type: none"> - Approve new instruments VEGAPULS SR 68 and VEGAPULS WL 61 for software update <p>Error corrections:</p> <ul style="list-style-type: none"> - Signal processing <ul style="list-style-type: none"> - An individually programmable linearization curve with negative gradient could not be processed - The simulation of the physical value could only be carried out up to 35 m - Error in the spreading correction with measurements in the tube - Time up to the fault message after an echo loss fixed set to 60 seconds for WHG and SIL. - Several error messages F080 checked and corrected - Instrument Software, in general <ul style="list-style-type: none"> - On site communication with the sensor no longer possible after interruption of the USB connection to VEGACONNECT 4 - The false echo memory curve was not updated in the DTM after changing a distance offset - The false echo memory curve was not cut in the DTM with high resolution echo curve presentation - The presentation of the distance values in the echo curves on the DTM were wrong with sensor distance unit "ft" - Measured value simulation was not reset after a parameter reset - Parameters for current adjustment were writable with blocked sensor - Wrong instrument status with defective real time clock (F261) - PLICSCOM adjustment 	<p>4</p>

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	<ul style="list-style-type: none"> – "Standpipe versions" are deleted with the menu item medium and selection Liquid/Bulk solid – Corrections with language "Russian" – With HART 4-wire with device status F113 no error text was displayed on PLICSCOM – Message Adjustment blocked. 2. PLICSCOM active with a connected PLICSCOM was outputted – HART communication – Error during the measured value transmission to VEGASCAN 	
4.2.0, 06/2010	<p>First version for 4-wire HART</p> <p>New functions and modifications:</p> <ul style="list-style-type: none"> – Instrument software, in general: <ul style="list-style-type: none"> – Support of the 4-wire supplementary electronics added – HART communication: <ul style="list-style-type: none"> – Parameter for deactivating the HART commands added 	4
4.1.0, 04/2010	<p>Function extension and error correction of the sensor software</p> <p>New functions and modifications:</p> <ul style="list-style-type: none"> – Signal processing: <ul style="list-style-type: none"> – Application free field added – Determination of the mobility probability of all echoes added – Update false signal suppression dependent on the system noise increase – Dependency of the special parameters from the application "Liquid", "Transportable plastic tank" changed – When changing the application setting, the signal processing will be restarted – Special parameter "Function measured value filter" only active for the PS60HS electronics – Error handling for the echo curve scanning improved – Instrument software, in general: <ul style="list-style-type: none"> – Parameter changes in the event memory added – Echo curve memory added – Echo curve of the setup added – Import/export false signal suppression for DTM added – Diagnosis: Increase of the system noise added – NAMUR status maintenance requirement with too low reliability added – Error handling in the parameterization added – Automatic recognition of the USB standard converter on the terminals – PLICSCOM adjustment: <ul style="list-style-type: none"> – Language Chinese added 	4

Version, available since	Description	Device Rev.
	<ul style="list-style-type: none"> – Changeover start behaviour (do not show failure 105 during start) – Measurement in the free field and increase system noise added – Scaling units adapted to an DTM Version 1.62.0 – With a reset through PLICSCOM, it jumps into the measured value image – Enable parameter access during the parameter reset for PLICSOM – Text changes – HART communication: <ul style="list-style-type: none"> – HART communication can now be switched off – Change of the SW and Device Revision – HART commands 50 and 51 added Error corrections: <ul style="list-style-type: none"> – Signal processing: <ul style="list-style-type: none"> – Accuracy problems with PS60HS electronics and small echoes – Measured value jumps with PS60HS electronics and measuring range >40 m distance, mainly without noise suppression – Reaction in case of failure: "Last valid value as interference current" faulty – Focussing range was calculated in the wrong way – Special parameter "Function measured value filter" filter constants for small and large measured value changes where interchanged – During a warm start of the instrument briefly the last measured value was outputted before the programmed interference current was outputted – Unit conversion m/ft in laboratory parameters EchoDetectionGeneral and MeasurementValueElectronicOffset faulty – Instrument software, in general: <ul style="list-style-type: none"> – Measured value memory stop condition "Memory full" faulty – Read out measured value memory blocked sometimes – "Starting" was displayed during a sensor start after a software update – Failure 261 was displayed during a sensor start after a software update – After a software update, a power failure was entered in the event memory – Electronics temperature and linearity error signal failure instead of maintenance requirement – Device status remained on function control after switching off the simulation automatically after one hour – Single Shot Events were stored as Set Events in the event memory – Error correction interface sensor and PLICSRADIO – When reading the order texts, the sensor delivered Status 128 and no data after switching on – PLICSCOM adjustment: 	

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	<ul style="list-style-type: none"> – In the Russian typeset "i" was displayed instead of superscript "3" – HART communication: <ul style="list-style-type: none"> – VVO 3 parameter device identification and HART-DeviceRevision did not match – HART command 3: SV (secondary value) was the same as TV (third value) – Unit code for nA was changed to 1015 – Upper/Lower Range Value did not depend on the current output characteristics – HART DynVarMapping: Values were not as in HART specification – Simulation current value was no more switched off in HART Multidrop mode – HART enquiry was not always answered – HART sensor answered with wrong data after a timeout of the previous command – HART timeout while writing parameter resets after a software update 	
<p>4.0.1, 11/2009</p>	<p>Error correction of the first production version</p> <p>New functions:</p> <ul style="list-style-type: none"> – Signal processing: <ul style="list-style-type: none"> – Running time optimization while calculating the false signal suppression – Instrument Software, in general <ul style="list-style-type: none"> – Antenna type for high temperature version added <p>Error corrections:</p> <ul style="list-style-type: none"> – Signal processing: <ul style="list-style-type: none"> – fault rectification with quick measured value changes: <ul style="list-style-type: none"> – New decision for a smaller echo delayed by 10 min. – Measured value filter was too slow for large changes – Focussing range was calculated in a wrong way for small vessel heights – Echo decision was made for a false echo if only false echoes were available – False echo assessment failed with echoes which are not tracked – In bulk solid mode, the echo detection detected no echoes when there was an echo in front of the zero point of the instrument – Status F265 was displayed instead of F013 during the sensor start when no echo was available in the envelope curve. – First large echo with DTM Version 10/2009 can now be changed again – Instrument software, in general: <ul style="list-style-type: none"> – Software update was not possible with supply of the sensor through a VEGAMET – Electronics temperature and error in the linearization signalled 	<p>3</p>

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Version, available since	Description	Device Rev.
	<ul style="list-style-type: none"> failure instead of maintenance requirement – Error correction when EEPROM was not readable – Cause for F080/1016 eliminated – Error F260/1004 with switched off reference pulse regulation – PLICSCOM adjustment: <ul style="list-style-type: none"> – Change over start behaviour (F105 is suppressed) – Simulation did not switch off automatically after one hour – After a reset, jump to the measured value image – HART communication: <ul style="list-style-type: none"> – Adjustment with an EDD was not possible – Device status with active simulation corrected – HART UpperTransducerLimit (Cmd#14) corrected 	
4.0.0, 10/2009	<p>First Software version for HW Version 2.0.0</p> <p>New functions:</p> <ul style="list-style-type: none"> – Signal processing: <ul style="list-style-type: none"> – Increased accuracy – Increased repetition rate – Extensions in the application parameterisation – Instrument software, in general: <ul style="list-style-type: none"> – Lower supply voltages possible – Device status according to NE 107 – Event memory added – Function extension for the measured value memory – Real time clock added – PLICSCOM adjustment: <ul style="list-style-type: none"> – Modification of the menu structure – modification of the layout with value changes – HART communication: <ul style="list-style-type: none"> – HART Revision 7 – HART measured values can be configured 	2

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,

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Name	Description
	e.g. new commands, modifications in the data structure in a command.