VEGAPULS 64 HART

Version, available since	Description	Device Rev.
1.3.4, 11**/2021**	**Error corrections:** – Instrument software, in general: – Support of alternative internal memory chips	**3**
1.3.3, 05/2021	**Error corrections:** – HART communication: – Communication problems with certain Pepperl+Fuchs Remote I/Os removed	**3**
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 re-started 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: – 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 46 ‘Trim Loop Current Gain‘ – CDM 47 ‘Write Primary Variable Transfer Function‘ – CMD 50 ‘Read Dynamic Variable Assignements‘ – CMD 51 ‘Write Dynamic Variable Assignements‘ – CMD 53 ‘Write Device Variable Units‘ – CMD 54 ‘Read Device Variable Information‘	**3**

Service info plics® software versions

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1.3.4, 11**/2021**	**Error corrections:** – Instrument software, in general: – Support of alternative internal memory chips	**3**
	– CMD 79 ‘Write Device Variable‘ – Additional Device Variables are now supported by the following Common Practice Commands – CMD 34 ‘Write PV Damping Value‘ – CMD 35 ‘Write PV Range Values‘ **Error corrections:** – Measurement function: – Determination of the limitation of the detection begin revised – Measured value stability improved – Gradient failure correction improved – 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: – Switching over between Chinese and non-Chinese language caused wrong menu presentations – HART communication: – CMD 6 ‘Write Polling Address‘ return a wrong Global Status – Due to a too late recognition of the Carrier Detect signal it could happen that HART enquiries were answered too late	
1.2.0, 01/2017	**Error corrections:** – Measurement function: – Fault message with echo loss was not activated for sensors with WHG approval – PLICSCOM adjustment: – Fault rectifications in the Chinese menu	**2**

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Version, available since	Description	Device Rev.
1.3.4, 11**/2021**	**Error corrections:** – Instrument software, in general: – Support of alternative internal memory chips	**3**
1.1.2, 06/2016	**Error corrections:** – Measurement function: – When activating the special parameter "Combine echoes", an offset was not corrected – Error removed in the "Combine echoes" algorithm – Instrument software, in general: – When the instrument units was set to "in" and the "Distance" or the "Filling height" was selected as Primary Value (PV), the a wrong current value was outputted	**2**
1.1.1, 04/2016	**Error correction of the first production version** **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 – 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	**2**
1.1.0, 12/2015	**First version** **New functions:**	**2**

Service info plics® software versions

Version, available since	Description	Device Rev.
1.3.4, 11**/2021**	**Error corrections:** – Instrument software, in general: – Support of alternative internal memory chips	**3**
	– Measurement function: – Applications level – Measuring range 120 m – Frequency range 79 GHz – Instrument software, in general: – 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.