

## VEGAPULS series 60 with electronics Profibus PA

For hardware versions > 2.0.0

Version available since	Description
<b>4.1.1, 10/2009</b>	<p><b>First software version for HW version 2.1.0</b></p> <p><b>New functions and modifications:</b></p> <ul style="list-style-type: none"> <li>– Signal processing               <ul style="list-style-type: none"> <li>– increased accuracy</li> <li>– increased repetition rate</li> <li>– extensions in the application parameterisation</li> <li>– determination of the mobility probability of all echoes added</li> <li>– update false signal suppression dependent on the increase of the system noise</li> </ul> </li> <li>– Instrument software, in general               <ul style="list-style-type: none"> <li>– lower supply voltages possible</li> <li>– device status according to NE 107</li> <li>– event and parameter modification memory added</li> <li>– echo curve memory added</li> <li>– echo curve of the setup added</li> <li>– function extension for the measured value memory</li> <li>– real time clock added</li> <li>– automatic recognition of the USB standard converter on the terminals</li> </ul> </li> <li>– PLICSCOM operation               <ul style="list-style-type: none"> <li>– modification of the menu structure</li> <li>– modification of the layout with value changes</li> </ul> </li> <li>– Profibus PA communication               <ul style="list-style-type: none"> <li>– Profibus PA profile 3.02</li> <li>– 3 AI function blocks available</li> </ul> </li> </ul>
<b>4.1.2 06/2010</b>	<p><b>Error correction of the first production version:</b></p> <p><b>New functions and modifications:</b></p> <ul style="list-style-type: none"> <li>– Instrument software, in general:               <ul style="list-style-type: none"> <li>– Firmware update with code sizes &gt; 2 Mb could not be executed</li> </ul> </li> <li>– Signal processing               <ul style="list-style-type: none"> <li>– Error echo detection F080 detail status 11059 appeared with more than 60 echoes</li> </ul> </li> </ul>

<p><b>4.4.0, 11/2010</b></p>	<p><b>Function extension and error correction of the sensor software</b></p> <p><b>New functions and modifications:</b></p> <ul style="list-style-type: none"> <li>– Signal processing <ul style="list-style-type: none"> <li>– new function overflow protection</li> </ul> </li> <li>– Instrument software, in general <ul style="list-style-type: none"> <li>– allow new instruments VEGAPULS SR 68 and VEGAPULS WL 61 for software update</li> </ul> </li> </ul> <p><b>Error corrections:</b></p> <ul style="list-style-type: none"> <li>– Signal processing <ul style="list-style-type: none"> <li>– an individually programmable linearization curve with negative incline could not be processed</li> <li>– the simulation of the physical value could only be carried out up to 35 m</li> <li>– error in the spreading correction when measuring in a tube</li> <li>– time up to the fault signal after an echo loss for WHG and SIL fix adjusted to 60 seconds</li> <li>– several error messages F080 checked and corrected</li> </ul> </li> <li>– Instrument software, in general <ul style="list-style-type: none"> <li>– on site communication with the sensor no longer possible after interruption of the USB connection to the VEGACONNECT 4</li> <li>– the false echo memory curve was not updated in the DTM after the change of a distance offset</li> <li>– the false echo memory curve was cut in the DTM without high-resolution echo curve presentation</li> <li>– distance values in the echo curves on the DTM were presented in the wrong way with sensor distance unit “ft”</li> <li>– measured value simulation was not reset after a parameter reset</li> <li>– parameter for current adjustment could be modified despite the blocked sensor</li> <li>– wrong device status with defective real time clock (F 261)</li> </ul> </li> <li>– PLICSCOM operation <ul style="list-style-type: none"> <li>– the “standpipe versions“ are deleted with the menu item Medium and selection Liquid/Bulk solid</li> <li>– corrections with language “Russian“</li> </ul> </li> <li>– Profibus PA communication <ul style="list-style-type: none"> <li>– error when reading the address selection switch removed</li> </ul> </li> </ul>
<p><b>4.5.0, 08/2011</b></p>	<p><b>Extensions for the Japanese market</b></p> <p><b>New functions and modifications:</b></p> <ul style="list-style-type: none"> <li>– Signal processing <ul style="list-style-type: none"> <li>– false signal suppression improved</li> <li>– algorithm of the mobility detection optimized</li> </ul> </li> <li>– In general <ul style="list-style-type: none"> <li>– limitation of the sensor and scaling units for Japan added</li> <li>– measured value memory at delivery and reset to basic setting activated</li> <li>– adjustable current consumption of the sensor electronics with 4-wire operation</li> </ul> </li> </ul>

	<ul style="list-style-type: none"> <li>– PLICSCOM operation             <ul style="list-style-type: none"> <li>– language Japanese added</li> <li>– language American should no longer be adjustable</li> </ul> </li> <li>– Profibus PA communication             <ul style="list-style-type: none"> <li>– PA Device Revision increased from 1 to 2</li> </ul> </li> </ul> <p><b>Error corrections:</b></p> <ul style="list-style-type: none"> <li>– In general             <ul style="list-style-type: none"> <li>– the function “Overfill safety“ could not be switched off</li> <li>– peak values showed to high negative values</li> <li>– simulation of the distance was not possible with actual negative measured value</li> </ul> </li> <li>– PLICSCOM operation             <ul style="list-style-type: none"> <li>– echo curve presentation optimized</li> </ul> </li> </ul> <p>Profibus PA communication optimized</p>
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Legend:

Name	Description
Version	Compatibility version.Extended functions.Error correction version
Available since	Month/Year