

## VEGAPULS C 2x two-wire 4 ... 20 mA/HART

Version, available since	Description	Device Rev.
1.2.2, 12/2022	<p><b>Error corrections:</b></p> <ul style="list-style-type: none"> <li>– Support alternative D/A converter on the current output and HART modem</li> <li>– Bluetooth communication:                             <ul style="list-style-type: none"> <li>○ Sensor now allows up to 5 simultaneous connections (but only one communicating VVO)</li> </ul> </li> </ul>	<b>2</b>
1.2.1, 05/2021	<p><b>Error corrections:</b></p> <ul style="list-style-type: none"> <li>– Measurement function:                             <ul style="list-style-type: none"> <li>– Error in the close range in the application "Bulk solids" corrected</li> <li>– Extending the additional safety at the end of the measuring range in the "stormwater overflow basin" application to 8 m</li> </ul> </li> <li>– Bluetooth communication:                             <ul style="list-style-type: none"> <li>– Sensor now allows up to 5 simultaneous connections (but only one communicating VVO)</li> </ul> </li> </ul>	<b>2</b>
1.2.0, 09/2020	<p><b>New functions:</b></p> <ul style="list-style-type: none"> <li>– Measurement function:                             <ul style="list-style-type: none"> <li>– Extensions for international radio approvals</li> <li>– Increased accuracy of the first measured value</li> </ul> </li> <li>– Bluetooth communication:                             <ul style="list-style-type: none"> <li>– Additional encryption of data transmitted via Bluetooth</li> </ul> </li> </ul> <p><b>Error corrections:</b></p> <ul style="list-style-type: none"> <li>– Instrument software, in general:                             <ul style="list-style-type: none"> <li>– The scaling unit "torr" could not be set</li> </ul> </li> <li>– HART communication:                             <ul style="list-style-type: none"> <li>– After changing the HART address with HART command 6, the sensor may stop measuring and restart after 2 minutes</li> <li>– The bit "More Status Available" in command 48 was not set if an error, maintenance request, out of specification or function control message was reset</li> </ul> </li> </ul>	<b>2</b>
1.1.0, 01/2020	<p><b>First sales version</b></p> <p><b>New functions:</b></p> <ul style="list-style-type: none"> <li>– Measurement function:</li> </ul>	<b>1</b>

## Overview of the software versions

Version, available since	Description	Device Rev.
	<ul style="list-style-type: none"> <li>– Linearization data of the adjustment tools are stored in the sensor, so that they are later available to the adjustment tools again</li> <li>– Negative adjustment values can be set</li> <li>– The adjustment determines now the vessel height</li> <li>– Settings of the application "Pump station" optimized</li> <li>– Default time for error message in case of echo loss set to 15 s (instead of 60 s)</li> <li>– Refined display of the echo curves</li> <li>– Various improvements in signal processing based on experience from field tests</li> </ul> <p>– Instrument software, in general:</p> <ul style="list-style-type: none"> <li>– A maintenance requirement message "Inconsistent software configuration" is displayed if the main and Bluetooth controller software do not match</li> <li>– Bluetooth software is transmitted in compressed form during a software update</li> <li>– During the update of the Bluetooth software, a maintenance requirement message "Software update in progress" is displayed</li> <li>– The Power Management was optimized</li> </ul> <p><b>Error corrections:</b></p> <ul style="list-style-type: none"> <li>– Measurement function: <ul style="list-style-type: none"> <li>– Configuration option for unsupported linearization curves has been removed</li> <li>– Current electronics temperature could be higher (or lower) than the maximum (or minimum) peak value</li> </ul> </li> <li>– Instrument software, in general: <ul style="list-style-type: none"> <li>– Safety of the access protection procedure was increased</li> </ul> </li> <li>– Bluetooth communication: <ul style="list-style-type: none"> <li>– Security of the authentication procedure was increased</li> </ul> </li> <li>– HART communication: <ul style="list-style-type: none"> <li>– Error code mapping in command #48 was wrong</li> </ul> </li> </ul>	
<b>1.0.0, 05/2019</b>	<b>Pilot series</b>	<b>1</b>

### Legend:

Name	Description
Version	xx.yy.zz xx: Compatibility version. Will be increased when the compatibility to the previous version is no longer given. Value range 0 ... 99. yy: Function extension version. Will be increased when new functions or function changes were carried out on the previous version. Also errors can have been corrected with a

## Overview of the software versions

Name	Description
	<p>function change. Value range 0 ... 99.</p> <p>zz: Error correction version. Will be increased when only errors were corrected on the previous version. Value range 0 ... 99.</p>
available since	Month/Year
Device Rev.	<p>Version number of the instrument defined by Fieldbus.</p> <p>Consecutive integral number</p> <p>Will be increased if in the "Application Layer" modifications were carried out, e.g. new commands, modifications in the data structure in a command.</p>