

VEGABAR 80 Profibus PA

Version, available since	Description	Device Rev.
1.2.3, 10/2021	<p>Extensions and error correction of the third production version</p> <p>New functions and modifications:</p> <ul style="list-style-type: none"> - Measurement function: <ul style="list-style-type: none"> - In the "Density-compensated level measurement" application, the sensor goes into fault as soon as the calculated density is outside the configured limits - In the "Density-compensated level measurement" application, the default value for the "upper sensor covered" threshold is 20 mbar - In the "Density-compensated level measurement" application, the integration time also affects the calculated density - In the application of electronic differential pressure, the reaction time of VEGABAR 82 and VEGABAR 83 was adjusted. - PLICSCOM adjustment: <ul style="list-style-type: none"> - Master and Slave terms removed <p>Error corrections:</p> <ul style="list-style-type: none"> - Measurement function: <ul style="list-style-type: none"> - To compensate for thermoshock, both temperature sensors are approximated by integration in the event of a drift. 	3
1.2.0, 07/2017	<p>Extensions and error correction of the second production version</p> <p>New functions and modifications:</p> <ul style="list-style-type: none"> - Measurement function: <ul style="list-style-type: none"> - In the application "Density-compensated level measurement" also the differential pressure can be corrected with an offset. - Instrument software, in general: <ul style="list-style-type: none"> - While switching over to electronic differential pressure, the static pressure value is automatically recorded in the measured value memory - The activation of the electronic differential pressure is only possible when PLICSCOM or VEGACONNECT are connected to the sliding contacts - PLICSCOM adjustment: <ul style="list-style-type: none"> - Quicker display of the measured value after a restart of the sensor or attaching PLICSCOM (the instrument version is no longer displayed) <p>Error corrections:</p> <ul style="list-style-type: none"> - Measurement function: <ul style="list-style-type: none"> - During the customer adjustment to the adjustment limits, the sensor display failure (F261 - 12017) after a restart - An adjustment span ≤ 1 mbar could not be adjusted - With electronic differential pressure, the limit values of the zero adjustment point were -20 % instead of -120 % of the measuring range - The sensor did not output a message "Value out of specification" although 	3

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	<p>the pressure value was outside the limits</p> <ul style="list-style-type: none"> - After a restart, an offset correction of the static pressure value >1 bar caused an error F260/F261 - In the application "Density", the level unit changes automatically from "m" to "ft", as soon as the density unit is changed from "kg/dm³" to "lb/ft³" <p>- Instrument software, in general:</p> <ul style="list-style-type: none"> - In the start phase, PLICSCOM was switched off for several seconds - Sensor did not start with wrong delivery status - With low energy (9.6 V and 3.8 mA) and quick activated measured value memory, it could happen that the sensor restarted cyclically - A reset to basic settings in error status F041 (no communication with the measuring cell electronics) was setting the adjustment to 0 ... 1 bar (the adjustment remains at 0 ... 1 bar, even if the communication with the measuring cell electronics was restored) - A reset to delivery status did not reset the physical unit - An automatic offset correction was not entered in the parameter change memory - With the first setup of a spare electronics, the customer-specific adjustment was reset - After a reset to delivery status, the spare electronics with customer-specific adjustment switched to error status F261-12015 - With VEGABAR 83 the sensor temperature peak value indicator sporadically stored impermissible values - With long-lasting overpressure, the sensor partly initiated a re-start <p>- PLICSCOM adjustment:</p> <ul style="list-style-type: none"> - For special parameter 7 (source of the measuring cell temperature) an empty field was displayed in the DTM with VEGABAR 83 and VEGABAR 82 with Mini-CERTEC® - In the menu "Min. adjustment", the max. adjustable value of the max. adjustment was displayed (on the bar graph) as max. adjustable value - The special parameters 8 (activate thermo-shock suppression Master) and 9 (activate thermo-shock suppression Slave) were not be taken into account in the function "Copy instrument settings" - The displayed measured value was still flashing in the 3. measured value image even if the value could be displayed again - The selection of the time format 24/12 hours was not translated correctly in the Spanish language - The first setup of the adjustment caused a wrong entry in the parameter change memory - Various error corrections in the Chinese menu <p>- PA communication</p> <ul style="list-style-type: none"> - In the PA control systems, the sensor was always shown as interfered (the "device-related diagnosis" made by means of the status of all measured values always signalled failure) 	
<p>1.1.0, 03/2016</p>	<p>Extensions and error correction of the first production version</p> <p>New functions and modifications:</p> <ul style="list-style-type: none"> - Measurement function: <ul style="list-style-type: none"> - New application "Density-compensated level measurement" - Additional position correction of the static pressure with electronic 	<p>2</p>

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	<ul style="list-style-type: none"> differential pressure <ul style="list-style-type: none"> – Configurable adjustment limits for OEMs, depending on measuring range – Instrument software, in general: <ul style="list-style-type: none"> – Own error number F042 for communication error with the slave – PLICSCOM adjustment: <ul style="list-style-type: none"> – Additional menu languages: Japanese and Chinese – Variable positions after the decimal point for the display value – Enquiry of the language setting when switching on the sensor for the first time – Lighting standard setting switched on Error corrections: <ul style="list-style-type: none"> – Measurement function: <ul style="list-style-type: none"> – In the application "Level measurement", the adjustment in "m" does not change, also when entering a new density – In the application "Interface measurement", the position correction must now always be entered in pressure units so that the position correction does not deliver negative metre values – In the application density measurement, the density is limited to "zero" if the slave pressure will be higher than the master pressure – Thermoshock compensation for master and slave can be switched on and off separately – Revision CERTEC® thermoshock compensation algorithm – Instrument software, in general: <ul style="list-style-type: none"> – Simulation functions also without connected measuring cell (sensor in error status F041) – The diaphragm temperature (instead of the rear temperature) is displayed with connected CERTEC® measuring cell – Measured value memory standard setting switched on with 10 seconds – Reset basic adjustments no longer resets the Device name – Reset delivery status resets the units – Device settings will be completely copied from PLICSCOM (settings for the user-defined unit and the adjustment were not copied) – Error when storing the switching off times removed (possibly the time stamp of the last entry in the event memory could be later than the time event of the switching off event) – Optimization Power Management – PLICSCOM adjustment: <ul style="list-style-type: none"> – Various error corrections – PA communication <ul style="list-style-type: none"> – Sync and Freeze mode behaviour adapted to GSD description – Behaviour of the Write Locking parameter adapted – PA_TB1_CalPointHi and PA_TB1_CalPointLo returned wrong default values 	
<p>1.0.1, 12/2014</p>	<p>Error corrections:</p> <ul style="list-style-type: none"> – Measurement function: <ul style="list-style-type: none"> – Temperature errors with the pressure value (WIKA sensors) are now compensated correctly 	<p>1</p>

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	<ul style="list-style-type: none"> - Limitation of the pressure value to -20 % of the measuring range and +120 % of the measuring range deleted 	
1.0.0, 09/2014	<p>First version</p> <p>New functions and modifications relating to VEGABAR 50:</p> <ul style="list-style-type: none"> - Measurement function: <ul style="list-style-type: none"> - Increased accuracy - Quicker reaction time - Extension with application parameter adjustment - Electronic differential pressure - Thermoshock compensation - 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 - The following languages are available: <ul style="list-style-type: none"> - German - English - French - Spanish - Russian - Italian - Dutch - Portuguese - Czech - Polish - Turkish - PA communication <ul style="list-style-type: none"> - Profibus PA Profile 3.02 - 3 AI function blocks available 	1

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

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