# PROTRAC

| Version, available since | Description | Device Rev. |
|---|---|---|
| **2.1.0** | **New functions and modifications:**<br>– Measurement function:<br>– Interference suppression with gamma modulator<br>– Writeable reference time for decay compensation | **HART: 2**<br>**FF: 3**<br>**PA:3** |
| **2.0.3** | **Error corrections:**<br>– Measurement function:<br>– Prevention of error F041 at very low pulse rates | **HART: 2**<br>**FF: 3**<br>**PA:3** |
| **2.0.1**<br>**10/2016** | **New functions and modifications:**<br>– Measurement function:<br>– Adjustment of the process damping with limit level applications<br>– The digital output works also with limit level applications The relay can be also used as pure fail safe relay.<br>– NORM compensation added<br>– Automatic filter can be parameterized<br>– Automatic real value correction also possible with negative process value<br>– Timing with interference radiation can be parameterized<br>– WEIGHTRAC:<br>– Automatic measurement of the zero rate can be started viai the digital input.<br>– Multi gauge:<br>– More flexible communication on the MGC bus, several instruments can calculate measured values<br>– Summation and NORM compensation with averaged and unaveraged values selectable.<br>– Errors of slaves can be suppressed.<br>– PLICSCOM:<br>– Simultaneous display of two measured values on PLICSCOM<br>– Reset real value correction added<br>– New unit kct/s for indication of pulse rates > 100000ct/s<br>– More detailed presentation of error codes<br>– More flexible selection of the display format<br>– Extended diagnosis presentation<br>– Languages selection with the first operation<br>– Fieldbus:<br>– With the Foundation Fieldbus EDDs of SOLITRAC, MINITRAC, | **HART: 2**<br>**FF: 3**<br>**PA:3** |

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| | FIBERTRAC and POINTRAC a setup is now possible.<br>– General information:<br>– Modification of the PIN now while locking the instrument<br>– Error F041 can be suppressed.<br>**Error corrections:**<br>– Diagnosis:<br>– Tolerances of the temperature sensors do no longer trigger F040<br>– No more error F030 triggered with a calculated negative density | |
| **1.8.0 07/2014** | **New functions:**<br>– Diagnosis<br>– Measured value recording, event memory, parameter change memory<br>– Error F041 Photo multiplier error-will be reset if reason disappears.<br>– WEIGHTRAC:<br>– Moisture compensation<br>– Measurement function:<br>– New density units PPA and KgA<br>– With application mass flow (tube) : Density and flow rate as reference values for the relay<br>– Automatic real value correction can be triggered cyclically<br>– Improved accuracy MINITRAC 31<br>– Modulated measuring current acts also on the F124 alarm due to increased radiation<br>– Communication:<br>– HART Variable Command 3 modified<br>– Functionality 1:<br>– Error correction 1<br>**Error corrections:**<br>– PLICSCOM:<br>– Fault rectification | **HART: 2**<br>**FF: 2**<br>**PA:1** |
| **1.7.0 06/2013** | **New functions and modifications:**<br>– Communication:<br>– Profibus PA available<br>– PLICSCOM:<br>– New language: Portuguese<br>**Error corrections:**<br>– PLICSCOM:<br>– Fault rectification with limit level applications | **HART: 2**<br>**FF: 2**<br>**PA:1** |

# Overview of the software versions

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|---|---|---|
| | – Steam density compensation:<br>  – Fault rectification | |
| **1.6.0 10/2012** | **New functions and modifications:**<br>– Safety:<br>  – SIL available<br>– Communication:<br>  – Software update from Slave over Master<br>– Measurement function:<br>  – Software update from Slave over Master<br>  – - Limit level adjustment (covered) with more safety<br>  – Limit level: Behaviour of the current output independent from relay settings | **HART: 2**<br>**FF: 1** |
| **1.5.0, 6/2012** | **New functions and modifications:**<br>– Communication:<br>  – Foundation Fieldbus available<br>– Measurement function:<br>  – Steam density compensation<br>  – Digital output activated | **HART: 2**<br>**FF: 1** |
| **1.4.1, 9/2011** | **New functions and modifications:**<br>– WEIGHTRAC 31:<br>  – Mass flow determination<br>– Measurement function:<br>  – Adaptive filter improved<br>  – Application mass flow (tube) improved<br>  – Measurement of the current input improved<br>  – Reset values of the adjustment changed<br>– Communication:<br>  – Improved IIC-Bus communication<br>**Error corrections:**<br>– Measurement function<br>  – Temperature compensation of the density measurement corrected with unit API | **HART: 2** |

# Overview of the software versions

| Version, available since | Description | Device Rev. |
|---|---|---|
| **1.0.0, 8/2010** | **First version**<br>– PROTRAC HART | **HART: 1** |
| | **First version**<br>**New functions:**<br>– Functionality 1:<br>– New function 1<br>**Error corrections:**<br>– Functionality 1:<br>**Error correction 1** | |

**Legend:**

| Name | Description |
|---|---|
| Version | xx.yy.zz<br>xx: Compatibility version. Will be increased when the compatibility to the previous version is no longer given. Value range 0 … 99.<br>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 function change.<br>Value range 0 … 99.<br>zz: Error correction version. Will be increased when only errors were corrected on the previous version. Value range 0 … 99. |
| available since | Month/Year |
| Device Rev. | Version number of the instrument defined by Fieldbus.<br>Consecutive integral number<br>Will be increased if in the "Application Layer" modifications were carried out. E.g. new commands, modifications in the data structure in a command. |