

Manufacturer Information

For users regarding firmware and hardware updates
(in accordance with the NAMUR 53 recommendation)

1 Type of device

- ☒ Field device / signal processing device
☐ Monitoring / operating system

Manufacturer : Endress+Hauser Flowtec AG
 Product : Proline Promag 400 HART
 Part number / Order code : 5[D|W]4C – *****

Communication / Interface	:	Communication	Device Type
		HART	0x1169

2 Firmware, Hardware I

Type of change:

- ☒ Firmware version
☐ Hardware I revision

Old version / revision : 2.00.01
 New version / revision : 2.01.00

How can the old Firmware version / Hardware I revision number be identified:

- Local display
- Connection nameplate
- Configuration and service software e.g. FieldCare

Description of the modification with respect to the old Firmware version / Hardware I revision:

- Current Output: Added parameter "Output Damping" to menu "Setup/CurrentOutSelection".
- Custody Transfer: Add locking of parameter "Alarm Delay" and "Assign behaviour of diagnostic no. 441" of event handling and in custody transfer mode "defined parameter".
- Custody transfer: Operation of Custody Transfer Dipswitch for activation/deactivation of Custody Transfer Mode only possible in powerless state.
- Diagnostic handling: Added DiagNo 961, "Electrode Potential Out of Range" (Event ID 341) with Namur state signal "Warning".
- Diagnostic handling: Make diagnostic "Process Limit" (diagnostic no 842) of event id 145 configurable with default value "Off".
- Diagnostic handling: New event "ISEM Supply Voltage" with diagnostic "Check Supply

Voltage To ISEM” (Diagnostic no 378) and Namur state signal “Failure” for ISEM power supply failures available.

- Frequency output: Set visualization of parameter “Frequency Frequency Max Value” from 10 kHz to the maximum possible value of 12.5 kHz.
- Heartbeat: “Heartbeat Verification Report” shows the current deviations and their limits instead of absolute output values.
- Heartbeat: “Heartbeat Verification Report” shows the detailed measuring details of page 3 and 4 to all access levels (only available in Webserver and Verification DTM)
- Heartbeat: Added measurement points E1, E2, Diff and PE-GND to verification report.
- Heartbeat: Allow performing of heartbeat verification with partially filled pipe.
- Local display: Performance and stability optimization improvements value to 3 seconds. This leads to a more stable display of the measured values.
- Measurement: New Event “Conductivity failed” (Event ID 906) with diagnostic “Check Grounding Deactivate Conductivity Measurement” (Diagnostic no 169) and Namur state signal “Warning”.
- Measurement: Added velocity saturation. Flow peaks cutted at +- 20m/s.
- Measurement: Filter extension for adaptive and dynamic flow filter.
- Measurement: Improvements of signal integrity: Reduced influence on flow measurement and added possibility to turn off diagnostic 377. Reduced false positive from Signal Integrity (DiagNo 377) when pipe is empty.
- System: SW versions of submodules are visible with access rights "Maintenance".
- Units: Add unit “Million standard cubic feet per day” (MMSft3/d) for parameter “Corrected volume flow”.
- Units: Add unit “Nhl” for parameter “Totalizer” and “Corrected Volume Flow”.
- Webserver: Export of parameter protocol available as pdf file.
- Webserver: Implement WLAN client mode support.
- Webserver: Support of data logging functionality on webserver.

3 Functional Safety

Impact on Functional Safety:

- ☒ No
☐ Yes

Changes in safety figures:

- ☒ No
☐ Yes → new figures refer to Safety Manual (chapter 5)

4 Compatibility (Firmware, Hardware I)

Is the new Firmware version compatible with the previous version, the installed device drivers, the operating tool compatible / is the new Hardware I revision compatible with the previous revision?

- ☐ Yes
☒ No, description:

Incompatibility due to new parameters and units which makes a new device driver necessary.

Is a Firmware / Hardware I update generally recommended?

☒ Yes, reason:

When new features shall be used an update is necessary.

The firmware update exchange can be performed by means of:

- Flashing the new firmware by means of; service or configuration program, i.e. FieldCare, DeviceCare, Webserver

☐ No, reason:

5 Documentation

Instruction manual

Is a new instruction manual required because of the changes in point 2?

☒ Yes

☐ No

Which manual corresponds to the new Firmware version / Hardware I revision:

Device	Communication option	Manual	Documentation code
-	-	-	-

Safety manual

Is a new safety manual required because of the changes in point 2?

☐ Yes

☒ No

Which safety manual corresponds to the new Firmware version / Hardware I revision:

Device	Manual	Documentation code
-	-	-

The new manuals can be downloaded from the Internet:

www.endress.com

- area "DOWNLOADS"

- enter the device details and type of manual

6 Price

Has the price of the device changed?

☐ Yes, new list price and update costs (without installation) are attached

☒ No