

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
 Product : Gammapilot
 Part number / Order code : FMG50

Communication / Interface : Communication HART Device Type
 Gammapilot 5x: 0x1130

2 Firmware, Hardware I

Type of change:

- ☐ Firmware
☐ Hardware I

Old version / revision : 01.00.zz
 New Version / revision :

How can the old Firmware version number be identified:

Description of the modification with respect to the old Firmware version:

- New safety manual with new values for safety-related characteristic values

Device	λ_{DU}		PTC-Test sequence A		PTC-Test sequence B		PTC-Test sequence C	
	Previous	New	Previous	New	Previous	New	Previous	New
Gammapilot FMG50	24 FIT	27 FIT	91%	92%	77%	80%	89%	90%

- No software or hardware modifications
- Reason: existing electrical components are to be used in a new development project. The FMEDA led to a new evaluation of the failure behaviours and different conservative assessment. This new assessment was adopted also for the current devices.

3 Functional Safety

Impact on Functional Safety:

- ☐ No
- ☒ Yes

The previous safety-related characteristic values describe in the functional safety manual may cause customers to define longer proof test intervals which can be calculated from the λ DU values.

For all devices and operating modes (SIL2/SIL3), the calculated proof test interval is longer than the useful lifetime of the device (assumption: 35% of PFDavg for sensor).

This means that theoretically, based on the calculations no proof test is required over the useful lifetime according to IEC61508- 2:2010 section 7.4.9.5 note 3.

The new safety figures hence have no practical influence on the proof test intervals as proof tests are performed in shorter intervals over the useful lifetime.

Changes in safety figures:

- ☐ No
- ☒ Yes → new figures refer to Safety Manual (chapter 1.1)

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:

Is a Firmware / Hardware I update generally recommended

- ☐ Yes, reason:
- ☒ No, reason: no software or hardware modification

5 Documentation

Instruction manual

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

- ☐ Yes
- ☒ No

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:

Device	Manual	Documentation code
<i>Gammapilot FMG50</i>	<i>FY01007F/06.24</i>	Functional safety

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