## Manufacturer Information

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

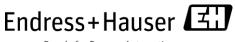
1 Type of device								
	Field device / signal processing device Monitoring / operating system							
Manufacturer		Endress+Hauser						
Product		Gammapilot						
Part number / Order code		FMG50						
Communication / Interface		Communication HART	Device Type Gammapilot 5x: 0x1130					
2 Firmware, Hardware I								
Type of change:								
<ul><li>☐ Firmware</li><li>☐ Hardware I</li></ul>								
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	$\lambda_{DU}$		PTC-Test sequence A PTC-Test sequence B PTC-Test sequence					equence C
Device	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 Fund	ctional Safety
Impact o	on Functional Safety:
_	No Yes
-	vious safety-related characteristic values describe in the functional safety manual may cause ers to define longer proof test intervals which can be calculated from the $\lambda DU$ values.
	devices and operating modes (SIL2/SIL3), the calculated proof test interval is longer than ful lifetime of the device (assumption: 35% of PFDavg for sensor).
	eans that theoretically, based on the calculations no proof test is required over the useful according to IEC61508- 2:2010 section 7.4.9.5 note 3.
	w safety figures hence have no practical influence on the proof test intervals as proof tests are ned in shorter intervals over the useful lifetime.
Changes	s in safety figures:
_	No Yes → new figures refer to Safety Manual (chapter 1.1)
4 Com	apatibility (Firmware, Hardware I)
	ew Firmware version compatible with the previous version, the installed device drivers, the ag tool compatible / is the new Hardware I revision compatible with the previous revision?
_	Yes No, description:
Is a Firm	nware / Hardware I update generally recommended
□ Y	Yes, reason:
⊠ N	No, reason: no software or hardware modification
5 Docu	umentation
Instructi	ion 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	n safety manual corresponds to the r	new Firmware version	1:			
Device	2	Manual	Documentation code			
Gammapilot FMG50		FY01007F/06.24	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					