



Level



Pressure



Flow



Temperature

Liquid
Analysis

Registration

Systems
Components

Services



Solutions

Manufacturer Information

for users regarding software updates
(following the NAMUR recommendation 53)

1 Type of device

- ☒ Field device / signal processing device
- ☐ Monitoring- / operation system / hand held terminal etc.
- ☐ Modem / interface

Manufacturer : Endress+Hauser GmbH+Co.KG

Device : Gammapilot M

Type : FMG60

Previous software version : V01.02.02 PA

How can the previous software version number be identified:

- (a) by PLC
- (b) by local operation FHX40 (Group selection-> system parameters
-> protocol+sw-no.
- (c) by FieldCare

2 Firmware/Software

New firm-/software version : V01.03.02 PA

Description of the modification in comparison with the predecessor version:

- (1) Error code A165 – generated from pulse rate >160 000 c/s- is automatically confirmed after the pulse rate is within the accepted range again. Power OFF and ON is not longer necessary.
- (2) New filter functionality for Gamma Modulator FHG65 implemented

3 Compatibility

Is the newly installed firmware/software compatible with the operating tools?

- ☒ Yes
 - FHX40 (VU331)
 - FieldCare from V 2.04.00 + DTM Library V 2.19.00
- ☐ No, description:

Manufacturer Information

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Is a firm/software update generally recommended?

☐ Yes, reasons:

☒ No, reasons:

Update only necessary if error code A165, generated from pulse rate >160.000 c/s.
This error code can occur in mines at density measurement and empty tube (pipe diameter > 500 mm), respectively at cascade of several detectors or at unpressurized vessel (if measuring point is designed for high pressure).

Or necessary if Gamma Modulator FHG65 is used.

4 Instruction manual

Is a new instruction manual necessary due to the modification of the firm-/software?

☐ Yes

☒ No

Which manual corresponds to the new firm-/software:

Device	Communication options	Manual	Marking
FMG60	4...20mA HART	Instruction manual	BA329F/00/en/03.09 71091969
FMG60	HART, PA, FF	Description of Instrument Functions	BA287F/00/en/06.07 on FieldCare-CD
FMG60		Functional safety manual	SD230F/00/en/10.07 No. 71041846

The new instruction manuals can be referred in Internet:

<http://www.endress.com> - area „DOWNLOAD“
- declaration of the device and kind of manual

5 Price

Change in price of device in comparison with the predecessor version?

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

☒ No