

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 : *Liquiphant FTL51B/62/63/64
with Electronic FEL60H / HART*
Part number / Order code : FTL51B-##BA#####
FTL62-##BA#####
FTL63-##BA#####
FTL64-##BA#####

Communication / Interface	:	Communication	Device Type
		HART	0x11C4

2 Firmware, Hardware I

Type of change: No change

- ☐ Firmware version
☐ Hardware I revision

Old version / revision : *01.00.01*

New version / revision : -

How can the old Firmware version be identified:

Not relevant

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

Adjustment Diagnostic Test Interval RAM Check from 10 minutes to 30 minutes. -

All other diagnostics remain unchanged.

Functional safety additions (Heartbeat Technology)

3 Functional Safety

Impact on Functional Safety:

- ☐ No
- ☒ Yes

Adjustments pertain to the RAM check only. According to DIN EN 61511-2 paragraph A.11.9.2, if a hardware fault tolerance of 0 and a high or continuous requirement rate (high demand), care must be taken to ensure that the ratio between the frequency of the request and the diagnostic interval must be greater than or equal to 100. This results in a maximum request rate of 1x every 17 hours from the previous specification of 10 min. If this has been exploited, the RAM check will still be run 33 times within the 17 hours with the correct information. It is extremely unlikely that a fault will not be discovered during this time.

Changes in safety figures:

- ☐ No
- ☒ Yes → new figures refer to Safety Manual

Adjustment Diagnostic Test Interval RAM Check from 10 minutes to 30 minutes.

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 new firmware*

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 / Hardware I revision:

Device	Manual	Documentation code
Liquiphant FTL51B	FY01068F/00/03.25	Functional Safety Manual
Liquiphant FTL62	FY01069F/00/03.25	Liquiphant FTL51B/62/63/64
Liquiphant FTL63	FY01091F/00/02.25	with electronic insert FEL60H (HART)
Liquiphant FTL64	FY01070F/00/03.25	

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