



Test certificate

Number: **TC8730** revision 0
Project number: 15200301
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Issued by NMI Certin B.V.

In accordance with The "Metrologiewet" (Stb. 2006, 137) and the "Meetinstrumentenbesluit II", article 5, point a (Stb. 2009, 494)

Producer Endress + Hauser GmbH + Co. KG
Hauptstrasse 1
79689 Maulburg
Germany

Part **A calculating device, intended for use as part of a liquid level gauge**

Make : Endress + Hauser GmbH + Co. KG
Type : Tankvision Gauge Link
Model : NXA20

Software versions : See the description, paragraph 1.2.1

Further properties and test results are described in the annexes:

- Description TC8730 revision 0;
- Documentation folder TC8730-1.

Issuing Authority **The Designated Body, NMI Certin B.V.**
4 May 2016


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Description

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1 General information about the calculating device

Properties of the measuring instrument shall not be in conflict with the legislation, in particular the "Regeling meetreservoirs, vloeistofhoogtemeters en discontinue brandstofmeters (Stcrt. 2008, 069)".

1.1 Essential parts

The calculating device is composed of the following parts:

Description	Documentation	Remarks
Processor Board	8730/0-02 and 8730/0-03	-
BPM Board	8730/0-04 and 8730/0-05	Option for BPM communication
TRL Board	8730/0-06 and 8730/0-07	Option for TRL2 communication

See document number 8730/0-01 for drawing of the calculating device.

1.2 Essential characteristics

The Tankvision Gauge Link is a tank gauging protocol converter to allow integration of third party gauging equipment into the Tankvision system.

1.2.1 Software specification (refer to WELMEC guide 7.2):

- Software type P;
- Risk Class C;
- Extension T, while extensions L, S and D are not applicable.

Description	Software version	Checksum	Remarks
BPM	V 1-1-0	0x3A2C258D1	-
TRL	V 1-1-0	0x6E9F005C	-

Software versions can be viewed as following:

- Once the Tankvision Gauge Link has been connected the diagnostic port and the terminal emulation program has been set up, the Tankvision Gauge Link can be powered up. When the Tankvision Gauge Link is powered up a message is printed with software version and checksum.
- Additional labels will be applied on the housing (back of the cover which can be opened). Containing the order code, serial number, protocol variant, software version and linked checksum. This label will also hold the certification number.

1.3 Essential shapes

1.3.1 Nameplate

The main nameplate is bearing at least, good legible, the following information:

- the Test certificate TC8730;
- name or trade mark of the manufacturer;
- model number;
- serial number and year of manufacture;
- software version and belonging checksum.



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1.4 Conditional parts

1.4.1 Power supply

The calculating device is powered by an external AC power supply, in the range 100 - 240Vac @ 50/60Hz.

1.5 Conditional characteristics

1.5.1 Programming

When the Weights & Measures switch is set to "W&M sealed" W&M parameters cannot be changed.

2 Conditions for Conformity Assessment

- The calculating device shall be constructed in conformity with the description and documentation folder that belong to this Test certificate;
- The seals shall be applied as described in chapter 3;
- Other parties may use this Test Certificate only with the written permission of Endress+Hauser.

3 Seals

The following seals are applied:

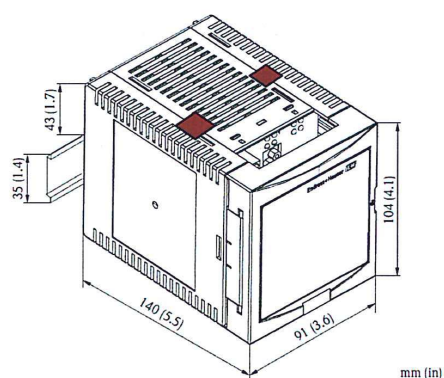
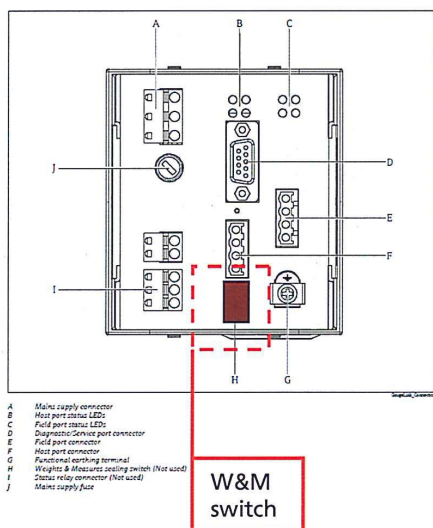
- The Weights and Measures key switch. A seal or sealing sticker has to be place over the switch after system is configured and sealed and switch is closed;
- The data plate is fixed to the calculating device and secured against removal by seal or it will be destroyed when removed;
- The housing is sealed against opening.



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See example of the sealing below:



4 Test reports

An overview of performed tests is given in the test reports:

- NMI-15200301-01;
- NMI-15200301-02.



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