



Nederlands Meetinstituut

Test certificate

Number : **TC3561** revision 0
Project number : 501042
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Issued by NMI Certin B.V.
Hugo de Grootplein 1
3314 EG Dordrecht
Nederland

In pursuance of Clause 11a, second paragraph, of the "Ijkwet".

Applicant Varec, Inc.
5834 Peachtree Corners East
Norcross
GA 3092 USA

Submitted **A communication device, intended for use in combination with a liquid level gauge.**

Characteristics Make : Varec, Inc.
Type : RTU/8130
Software version : Refer to the option board information.

In the description TC3561 revision 0 the other characteristics are given.

Description and documentation The communication device is described in the Description nr. TC3561 revision 0 and documented in the documentation folder nr. TC3561-1, belonging to this Test certificate.

Remark -

Dordrecht, April 27th, 2005
NMI Certin B.V.


Ing. C. Oosterman
Manager Product Certification

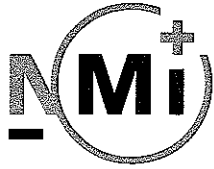
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1 General information about the communication device

All properties, whether or not mentioned, of this communication device shall not violate with the "IJKwet" (Weights and Measures Law), the "IJKreglement" (Weights and measures general regulations) and the "IJKregeling vloeistofhoogtemeters" (Weights and Measures regulations for liquid level gauges).

1.1 Essential parts

1.1.1 Electronics parts

1.1.1.1 RTU main system; the following versions:

RTU3_00
RTU3_01
RTU3_02
RTU3_03, RTU3_031, RTU3_032, RTU3_033, RTU3_034,
RTU3_04
RTU3_05, RTU3_051, RTU3_052, RTU3_053, RTU3_054, RTU3_055, RTU3_056
RTU3_06
RTU3_07
RTU3_08
RTU3_09
RTU3_10, RTU3_101
RTU3_11, RTU3_111, RTU3_112
RTU3_13, RTU3_131, RTU3_132
RTU3_14
RTU3_15, RTU3_151, RTU3_152
RTU3_16, RTU3_161
RTU3_17
RTU3_18, RTU3_181, RTU3_182
RTU3_19, RTU3_191

1.1.1.2 Option board 8203

This option board has 4 sub options, two of which support sealable RTU points: 8203-2 for MODBUS and 8203-5 for RACKBUS.

The following versions are allowed:

MOD3_00
MOD3_01, MOD3_011
MOD3_02, MOD3_021
MOD3_03
MOD3_04, MOD3_41, MOD3_42
RAK3_00
RAK3_01, RAK3_011



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1.1.1.3 Option board 8211

This option board supports the Whessoe Bus communication protocol.
The following version is allowed:

WB3_03

1.1.1.4 Option board 8212

This option board supports the SAAB communication protocol.
The following versions are allowed:

SAAB3_00
SAAB3_01
SAAB3_02
SAAB3_03
SAAB3_04
SAAB3_05
SAAB3_06

1.1.1.5 Option board 8213

This option board supports the V1 communication protocol, intended for communication with Endress + Hauser and Varec devices.
The following versions are allowed:

V1_3_00
V1_3_01, V1_3_011, V1_3_012, V1_3_013, V1_3_014, V1_3_015, V1_3_016
V1_3_02 V1_3_021, V1_3_022
V1_3_03

1.1.1.6 Option board 8214

This option board supports the ENRAF communication protocol.
The following versions are allowed:

ENRAF3_00, ENRAF3_001, ENRAF3_002, ENRAF3_003, ENRAF3_004, ENRAF3_005,
ENRAF3_01, ENRAF3_011, ENRAF3_012, ENRAF3_013



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1.2 Essential characteristics

1.2.1 Sealing of the points

The RTU/8130 is configured via a tool called ViewRTU. ViewRTU can communicate with the RTU either local, running on a laptop device, or remotely running via FuelsManager. The ViewRTU configuration tool allows Weights & Measures accredited persons to apply a software seal to a particular point, like i.e. the level unit. Once this seal is applied all parameters that affect the integrity of the point's data cannot be changed without removing the seal. A list of parameters that can be sealed and a description how to do so are part of the documentation folder.

2 Conditions for approval

- 2.1 The communication device shall be constructed in conformity with the description and documentation folder that belong to this test certificate.
- 2.2 The W&M seals shall be applied as described in chapter 3.

3 W&M seals

- 3.1 Refer to paragraph 1.2.1 of this description how to seal parameters with a software seal.



Annex

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File information.

TEST	PART	TYPE	TEST REPORT	INSTITUTE
Weights & Measures regulations for liquid level gauges. Functional tests. Environmental tests.	communication device, make Varec.	RTU/8130	Refer to the project folder 501042, as well as to the files about the Endress + Hauser level gauges and the Endress + Hauser NRF590.	Nederlands Meetinstituut N.V.

File:TC3561R0_English.doc