

Issued by	NMi Certin B.V.
Relevant document	WELMEC 8.8, 2017 "Guide on the General and Administrative Aspects of the Voluntary System of Modular Evaluation of Measuring instruments".
Producer	Anderson Instrument Company Inc. 156 Auriesville Road Fultonville, NY 12072. United States of America.
Part	A measuring device (electromagnetic measuring device), intended to be used as a part of a measuring instrument Type : IZM-xxxxx or IZMSA-y/y/yyyy ¹
Result	<p>The technical design of the measuring device has been evaluated by carrying out examinations and tests in accordance with the relevant documents as mentioned on the following pages. As a result, it has been concluded that the measuring device meets the applicable essential requirements of Directive 2014/32/EU (MID). The examination has resulted in Evaluation Certificate number TC7520 revision 9.</p> <p>The executed evaluations, reference documents and reports used during the examination are described on the following pages.</p>
Remark	<p>See evaluation certificate paragraph 1.2.1 for more information on xxxxx and y/y/yyyy</p> <p>This revision replaces the earlier version(s).</p>

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Manager Type Approval

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1 Examinations according to the Directive

The activities listed in point 4 of Annex II, module B of Directive 2014/32/EU are executed with the results as stated in the table below.

Point	Activity	Performed and Passed [yes/no/N.A.]
4.1	Examine the technical documentation	Yes
4.2	Verify that specimens have been manufactured in conformity with the technical documentation	Yes
	Identify elements designed in accordance with the relevant provisions of the relevant documents	Yes
	Identify elements which have been designed without applying the relevant provisions of the relevant documents	N.A.
4.3	Carry out the appropriate examinations and tests, or have them carried out, to check whether, where the manufacturer has chosen to apply the solutions in the relevant documents, these have been applied correctly	Yes
	Applied harmonised standard / normative document	See chapter 2
4.4	Carry out the appropriate examinations and tests, or have them carried out, to check whether, where the manufacturer has chosen not to apply the solutions in the relevant documents, the solutions adopted by the manufacturer meet the corresponding essential requirements of this Directive	N.A.
4.5	Agree with the applicant on the location where the examinations and tests are carried out	Yes
4.6	Examine the technical documentation and supporting evidence to assess the adequacy of the technical design of the other parts of the measuring instrument	Yes

2 Harmonised standards, normative documents and / or recommendations

The measuring device is examined in accordance with the Directive listed in this Evaluation Report, page 1.

The following harmonised standards, normative documents and / or recommendations are applied:

- OIML R117,2007 "Dynamic measuring systems for liquids other than water"
- WELMEC 7.2, issue 4 "Software Guide"

3 Report(s)

The conformity was established by the results of tests and examinations provided in the associated Report(s):

Test	Part / Type	Report	Remarks
Accuracy	Sensors:	PTB-1.5-4036433;	PTB
Climate & vibration	IZM-G1	U080762D1;	Phönix Testlab
AC mains volt. variat.	IZM-G2	98977/11;	Diessel GmbH & Co.KG
DC mains volt. variat.	Converters:	98977/25;	Diessel GmbH & Co.KG
AC volt. dips, ...	IZM-SE	98977/24;	Diessel GmbH & Co.KG
Burst and surges	IZM-TE	981126BA;	EMCCert Dr. Rasek
ESD	IZM-ZDC1	98977/23	Diessel GmbH & Co.KG
Radiated & conducted	IZM-MEV	U080762D	Phönix Testlab
Automotive tests		98977/41	Diessel GmbH & Co.KG
Complete Evaluation	Sensors: IZMAG ² IZM-G1 IZM-G2 Converters: IZM-SE IZM-TE IZM-ZDC1 IZM-MEV	Technical file PTB-1.5-4036433 revision 2 dated 17 October 2017	Tested according to OIML R117-1, 2007, "Dynamic measuring systems for liquid other than water".
Complete Evaluation	Sensors: IZMAG ² IZMAG IZM-G1 IZM-G2 Converters: IZM-SE IZM-TE IZM-ZDC1 IZM-MEV	Technical file PTB-1.5-4036433 revision 3 dated 17 May 2018	Tested according to OIML R117-1, 2007, "Dynamic measuring systems for liquid other than water".

A report can be a test report, an evaluation report, a type evaluation report and/or a pattern evaluation report.

4 Additional Evaluations

This Evaluation Report is supplemented by the following additional evaluations:

Test	Part / Type	Report / Document	Remarks
Software	IZM converters	File Emails.SoftwareUpdate.pdf dated 17 April 2018	Evaluation of software changes according to the requirements of WELMEC 7.2
Software	IZM converters	Operation manual for special IZM-T Software with long term memory extension	Evaluation of software changes according to the requirements of WELMEC 7.2

5 Cross reference

Requirements of the Directive which are not covered by the applied harmonised standards and / or normative documents, as indicated in the applied cross reference, are covered by the following:

Test	Report	Remarks
Other influence quantities to be considered, where appropriate, are: - mains frequency variation power frequency magnetic fields	-	The stated influence quantities are judged to have no significant influence on the accuracy of measuring device. Therefore, no additional tests have been performed.
Software identification shall be easily provided by the measuring instrument.	-	See chapter 1.2 of the description of Evaluation Certificate TC7520.
The measuring system shall not exploit the MPEs or systematically favour any party.	-	During the Conformity Assessment procedure D or F, the measurement error of the measuring device shall be adjusted as close to zero as possible.

6 Revision History

Project number	Rev.	Date	Report / Document	Description / Remarks
1902311	5	2 July 2018	- PTB-1.5-4036433; - U080762D1; - 98977/11; - 98977/25; - 98977/24; - 981126BA; - 98977/23; - U080765D; - 98977/41; Emails.software Update.pdf	First Issue ¹ .
2196773	6	4 September 2018	PTB-1.5-4036433 revision 3	-
2432051	7	3 February 2020	Operation manual for special IZM-T Software with long term memory extension	Software update to include long term memory for the IZM-T
3657736	8	26 September 2023	TC7520-6	Name change from GEA Diesel to Anderson-Negele. Type designation change
3780065	9	12 March 2024	TC7520-7	Update text about shape of meter housing body and nameplate

^[1] Revisions 0 ... 4 are not issued. This first issue is numbered revision 5 in order to keep the numbering synchronised with the numbering of the revisions of Evaluation Certificate TC7520.