

II

(Information)

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COMMISSION

Commission communication in the framework of the implementation of Directive 2004/22/EC of the European Parliament and of the Council on measuring instruments ⁽¹⁾*(Publication of the references to normative documents drawn up by OIML and the list of the parts thereof corresponding to the essential requirements (in conformity with Article 16.1 of the Directive))***(Text with EEA relevance)**

(2009/C 268/01)

MI-002: Gas meters

in relation to:

— OIML R 137-1 2006

Essential requirements in MID (Annex I and MI-002)	OIML R 137-1 (2006)	Comment
Annex I		
1.1	5.3.1	Covered
1.2	7.4.15 table 6, A.1	Covered
1.3	7.3.5	Covered
1.3.1	5.1, A.4.2.1, A.4.2.2	Covered
1.3.2		
(a) M1 (a) M2	7.4.13, A.5.1, A.5.2	Covered
(a) M3		Not relevant
(b)	7.4.13	Covered for meter up to 10 kg
1.3.3		
(a) E1	7.4.15, A.6.1.1, A.6.1.2, A.6.2, A.6.3, A.6.4, A.7.3, A.7.4, A.7.5	Covered
(a) E2		Not relevant
(a) E3		Not relevant
(b)	7.4.15	Covered
1.3.4	7.4.15, A.7	Covered for voltage variation
1.4		

⁽¹⁾ OJ L 135, 30.4.2004.

Essential requirements in MID (Annex I and MI-002)	OIML R 137-1 (2006)	Comment
1.4.1	5.3.1, 7.4, A.1	Covered for class 0.5 or if MPE are fulfilled during application of influence quantities
1.4.2	A.4.2.1, A.4.2.2	Covered
2		Not relevant
3	7.4.4	Covered
4	6.1.3	Covered
5	7.4.9	Covered
6	3.1.1, 6.5	Covered
7		
7.1	3.1.4, 4.3.1	Covered
7.2	3	Covered
7.3	7.4.11	Covered for mechanical meters
7.4		Not relevant
7.5	3.1.1, 3.1.4	Covered
7.6	6.2.1, 7.3.5, 7.4.16, 4.2.4.x	Covered except for test procedure
8		
8.1	6.3.1, 4.3.4.2	Covered
8.2	4.3.14.3.3	Covered
8.3	7.4.16, 4.2.4, 4.3.4.1	Covered
8.4	4.3.1, 7.4.1.16	Covered
8.5	6.1.1	Covered
9		
9.1	4.2.1	Covered except for the information about additional devices
9.2	4.2.1	Covered
9.3	4.2	Covered for information on data plate
9.4		Not relevant
9.5	6.2.2, 6.1.1	Covered
9.6		Not relevant
9.7	4.1	Covered
9.8	4.2	Covered
10		
10.1	6.1.1	Covered
10.2	6.1.1	Covered
10.3	2.1.10, 6.3	Covered
10.4		Not relevant
10.5	3.1.5	Covered

Essential requirements in MID (Annex I and MI-002)	OIML R 137-1 (2006)	Comment
11		
11.1		Not relevant
11.2		Not relevant
12		Covered
Annex MI-002		
Definitions	2.1.1, 2.3.3, 2.3.2, 2.3.4, 2.4.4 and 7.4.11	Covered
1	7.3.5	covered
1.1	5.2	Covered for class 1.5 if $Q_{\max}/Q_{\min} \geq 150$ Covered for class 1.0 if $Q_{\max}/Q_{\min} \geq 20$
1.2		Not covered
1.3	5.1	Covered
1.4	5.1	Covered except for three temperature ranges of OIML R137-1
1.5	4.2.4	Covered
2		
2.1	5.3.3	Covered except for the requirement on errors of same sign in 2.1, Annex MI-002
2.2	5.3.4	Covered if selected temperature lies between 15 °C and 25 °C
3		
3.1		
3.1.1	7.4.15	Covered
3.1.2	7.4.15	Covered
3.1.3	7.4.15, 2.2.10	Covered for the first clause of the requirement
3.2	7.4.8	Covered
4		
4.1		
4.1.1	7.4.9	Covered
4.1.2	7.4.9	Covered
4.2		
4.2.1	7.4.9	Not covered
4.2.2	7.4.9	Not covered
5		
5.1	6.4.2	Not covered
5.2	6.4.4	Covered by one of the alternatives
5.3	6.1.2	Not covered
5.4	3.4, 7.4.5	Covered

Essential requirements in MID (Annex I and MI-002)	OIML R 137-1 (2006)	Comment
5.5	6.2.1	Covered
5.6	3.2, 7.4.5	Covered
6	4.1	Covered if kg or m ³ is used

Note:

The column 'Comment' indicates the compliance between OIML R 137-1 and the relevant requirement in Directive 2004/22/EC.

The indication 'Covered' means that:

- the requirement of OIML R 137-1 is identical to the one of MID, or
- the requirement of OIML R 137-1 is more severe than the one of MID, or
- all of the requirement of OIML R 137-1 fulfils MID requirements (even when MID allows other alternatives),
- in case the requirement is not fully covered, a short statement explains what is covered.

The indication 'Not covered' means that the MID requirement is either not compatible with the relevant OIML R 137-1 requirement or not included in OIML R 137-1.

The indication 'Not relevant' means that the MID Annex I requirement is not relevant for gas meters.

MI-002: Volume conversion devices

in relation to:

— OIML R 140 2007

Directive 2004/22/EC Essential requirements of Annex I and Annex MI-002	OIML R 140 (2007)	Comment
Annex I		
1.1	T.2.6, T.3.4, 9.1.1	Covered
1.2	T.2.16, T.2.17.2, 9.1.2, A.1	Covered for disturbances
1.3	T.1.22, 7.1.3, A.2, A.4	Covered provided the manufacturer specify all needed information
1.3.1	7.1.3, A.4.1, A.4.2, T.1.22	Covered
1.3.2 (a)		
M1 M2	7.1.3, A.4.4	Covered for vibrations
M3		Not relevant
1.3.2 (b)	7.1.3.1, A.4.4	Covered for vibrations
1.3.3 (a)		
E1	7.1.3, 10.2.8, A.4, A.4.5.a, A.4.5.b, A.4.6, A.4.7, A.4.8, A.4.11, A.4.12, A.4.13	Covered
E2		Not relevant
E3		Not relevant
1.3.3 (b)	A.4	Covered, except short interruptions in the case of DC
1.3.4	6.4.9, A.4, A.4.9, A.4.10	Covered except for mains frequency variations and power frequency magnetic fields
1.4		
1.4.1	A.1, A.4	Covered if modular approach is used
1.4.2	A.4.3	Covered
2		Not relevant

Directive 2004/22/EC Essential requirements of Annex I and Annex MI-002	OIML R 140 (2007)	Comment
3		Not covered
4	8.2.1.3, 8.6.1.3	Covered
5	9.1.1, 9.1.2, 9.1.3	Covered
6	9.1.1, 9.1.2, 9.1.3, 9.1.5, 9.3	Covered
7		
7.1	7.6	Covered
7.2	7.3.4, 8.5, 8.6, 8.7	Covered
7.3	9.3.5, 9.3.6	Covered
7.4		Not relevant
7.5	8.6.1.1, 8.6.1.2	Covered
7.6	9.3, 10.2.3	Covered except for test procedure
8		
8.1	7.1.1.1, 7.1.1.2, 7.3.2, 8.6.1.4, 8.6.1.5	Covered
8.2	7.6	Covered
8.3	7.6.2, 10.2.3	Covered except providing the identification of software on the instrument
8.4	7.6.2	Covered
8.5	7.1.4.6, 8.7.2	Not Covered
9		
9.1	7.5.1, 7.5.2, 7.1.1.2	Covered for information on data plate
9.2		Not relevant
9.3	7.5.1, 10.2.3, 10.2.8.2	Covered
9.4		Not relevant
9.5	8.2.1.2, 7.1.4.1	Covered
9.6		Not relevant
9.7	5.1	Covered
9.8	7.5.1	Covered
10		
10.1	8.2.1.1	Covered
10.2	7.1.4.1, 7.1.4.3, 8.2.1.1	Covered
10.3	T.1.5, 8.3, 8.4	Covered
10.4		Not relevant
10.5		Covered provided that the volume conversion device is equipped with a local display
11		
11.1		Not relevant
11.2	7.1.4.6, 8.7.2, 9.1.5	Covered

Directive 2004/22/EC Essential requirements of Annex I and Annex MI-002	OIML R 140 (2007)	Comment
12		Covered
Annex MI-002		
Definitions	1.1, 2, 6.3, 7.3, 8.5, 8.6	Covered
Gas meter Conversion device Minimum flowrate Maximum flowrate Transitional flowrate Overload flowrate Base conditions	T.1.9, T.1.12, 7.3.2.1, T.1.14, 7.3.1	Covered
1	7.1.2.1, 8.6.1.1, 9.3.6	Not covered
1.1		Not relevant
1.2		Not covered
1.3	7.3, 7.5.1	Covered
1.4	7.1.3, A.4.1, A.4.2, T.1.22	Covered
1.5	7.1.3, A.4, A.4.9, A.4.10, T.1.22	Covered
2		
2.1		Not relevant
2.2		Not relevant
3		
3.1		
3.1.1	T.2.17.2, T.2.17.4, 9.1.2, 9.1.3, 9.1.4	Covered
3.1.2	9.1.1, 9.1.2, 9.1.3, 9.1.5, 9.3.6	Covered
3.1.3	T.2.17.2	Covered
3.2		Not relevant
4		
4.1		
4.1.1		Not relevant
4.1.2		Not relevant
4.2		
4.2.1		Not relevant
4.2.2		Not relevant
5		
5.1	9.2.1	Not covered
5.2	9.2.2	Covered when the battery has a 5 years lifetime
5.3		Not relevant
5.4		Not relevant
5.5		Not relevant

Directive 2004/22/EC Essential requirements of Annex I and Annex MI-002	OIML R 140 (2007)	Comment
5.6		Not relevant
6	5.1	Covered except when mass is expressed in tonnes
7	7.3.1, 10.2.2	Covered
8	6.3.3	Covered provided that ambient temperature is managed such that it remains within ± 3 °C at reference conditions and except for OIML R 140 class C
9		
9.1	9.3.6	Covered
9.2	7.1.4, 8.2, 8.7.1	Covered only for parameters and provided that the conversion device is equipped with a local display

Note:

The column 'Comment' indicates the compliance between OIML R 140 and the relevant requirement in Directive 2004/22/EC.

The indication 'Covered' means that:

- the requirement of OIML R 140 is identical to the one of MID, or
- the requirement of OIML R 140 is more severe than the one of MID, or
- all of the requirement of OIML R 140 fulfils MID requirements (even when MID allows other alternatives),
- in case the requirement is not fully covered, a short statement explains what is covered.

The indication 'Not covered' means that the MID requirement is either not compatible with the relevant OIML R 140 requirement or not included in OIML R 140.

The indication 'Not relevant' means that the MID Annex I requirement is not relevant for conversion devices.

MI-007: Taximeters

in relation to:

— OIML R 21 2007

Essential requirements of Annex I and Annex MI-007	OIML R 21 (2007)	Comment
Annex I		
1.1	2.4.5.4, 2.5.5	Covered
1.2	A.5.4.5	Covered
1.3	3.5.2	Covered
1.3.1	3.5.1, 5.1.2	Covered
1.3.2(a)		
M1		Not relevant
M2		Not relevant
M3	A.5.4.4	Covered
1.3.2(b)		Covered
1.3.3(a)		
E1		Not relevant
E2		Not relevant
E3	A.5.4.3, A.5.4.5, A.5.4.6, A.5.4.7	Covered when the field strength is 24 V/m
1.3.3(b)	Annex A	Covered

Essential requirements of Annex I and Annex MI-007	OIML R 21 (2007)	Comment
1.3.4	Annex A	Covered
1.4		
1.4.1	A.5.1	Covered
1.4.2	5.1.2	Covered
2	7.5	Covered
3	5.2.6	Covered
4		Covered
5	4.1	Covered
6	3.3	Covered
7		
7.1	4.2.1	Covered
7.2	4.1, 4.9.1	Covered
7.3		Not relevant
7.4		Not relevant
7.5	4.1	Covered
7.6	4.2.3, 4.11	Covered when the test procedure is included in the operation manual
8		
8.1	5.2.3.2	Covered
8.2	4.2.5	Covered
8.3	4.11.2.	Covered
8.4	4.10	Covered
8.5		Not relevant
9		
9.1	4.12, 4.12.1	Covered
9.2		Not relevant
9.3		Not covered
9.4		Not relevant
9.5		Not relevant
9.6		Not relevant
9.7	3.4, 4.9.1	Covered
9.8	4.12.2	Covered
10		
10.1	4.9.1	Covered
10.2	4.9.1	Covered
10.3	4.9.2	Covered
10.4	4.9.1	Covered

Essential requirements of Annex I and Annex MI-007	OIML R 21 (2007)	Comment
10.5		Not relevant
11		
11.1		Not relevant
11.2		Not relevant
12	4.2.3	Covered
Annex MI-007		
Definitions		
Taximeter	2.1.1	Covered
Fare	2.3.1.1	Covered
Cross-over speed	2.3.1.2	Covered
Normal calculation mode S (single application of tariff)	2.3.1.3.1	Covered
Normal calculation mode D (double application of tariff)	2.3.1.3.2	Covered
Operating position	2.3.3, 2.3.3.1, 2.3.3.2, 2.3.3.3	Covered
1	3.1	Covered
2	2.3.3.2, 2.3.3.3, 3.1	Covered
3	4.3	Covered
4	5.2.3, 4.2.2	Covered
5	4.2.3, 4.2.5	Covered
6.1	A.5.4.4	Covered
6.2	3.5.1, 3.5.2	Covered
7	3.2.1.1	Covered
8		
8.1	See Answer to Annex I § 1.3.3	Covered
8.2	5.1.3	Covered
9	5.2.5	Covered
10	3.1	Covered
11	4.5.3(b)	Covered
12	4.5.4	Covered
13	4.9.1	Covered
14.1	4.2.4	Covered
14.2	4.2.5	Covered when 4.2.5.i of OIML R 21:2007 is mandatory
14.3	See answer to Annex I § 8.3	Covered
15.1	4.7	Covered
15.2	4.7	Covered
15.3	4.9.1	Covered

Essential requirements of Annex I and Annex MI-007	OIML R 21 (2007)	Comment
16	4.8	Covered
17	4.1, 4.14.1	Covered
18	5.2.4, 3.2.1.1	Covered
19	4.14.1, 4.2.1	Covered
20	4.2.1	Covered
21	3.3	Covered
22	3.7	Covered
23	3.4	Covered

Note:

The column 'Comment' indicates the compliance between OIML R 21 and the relevant requirement in Directive 2004/22/EC.

The indication 'Covered' means that:

- the requirement of OIML R 21 is identical to the one of MID, or
- the requirement of OIML R 21 is more severe than the one of MID, or
- all of the requirement of OIML R 21 fulfils MID requirements (even when MID allows other alternatives),
- in case the requirement is not fully covered, a short statement explains what is covered.

The indication 'Not covered' means that the MID requirement is either not compatible with the relevant OIML R 21 requirement or not included in OIML R 21.

The indication 'Not relevant' means that the MID Annex I requirement is not relevant for taxi meters.

MI-008 CHAPTER II: Capacity serving measures

in relation to:

— OIML R 138 2007

Essential requirements in MID (Annex I and Annex MI-008 II)	OIML R 138 (2007)	Comment
Annex I		
1.1	5.1	Covered
1.2		Not relevant
1.3		Not relevant
1.3.1		Not relevant
1.3.2(a)		Not relevant
1.3.2(b)		Not relevant
1.3.3(a)		Not relevant
1.3.3(b)		Not relevant
1.3.4		Not relevant
1.4		
1.4.1		Not relevant
1.4.2		Not relevant
2		Not covered
3		Not covered
4	4.4	Covered
5	4.2	Covered
6		Not covered

Essential requirements in MID (Annex I and Annex MI-008 II)	OIML R 138 (2007)	Comment
7		
7.1		Not covered
7.2	4.2	Covered
7.3		Not relevant
7.4		Not relevant
7.5	4.2	Covered
7.6		Not relevant
8		
8.1		Not relevant
8.2		Not relevant
8.3		Not relevant
8.4		Not relevant
8.5		Not relevant
9		
9.1	5.2.4, 5.2.1, 5.2.5	Covered when the reference temperature is 20 °C
9.2		Not relevant
9.3		Not relevant
9.4		Not relevant
9.5		Not relevant
9.6	5.2.1	Covered
9.7	3	Covered when units are SI units
9.8	5.2.1	Covered
10		
10.1		Not relevant
10.2	5.2.1	Covered
10.3		Not relevant
10.4		Not relevant
10.5		Not relevant
11		
11.1		Not relevant
11.2		Not relevant
12		Covered
Annex MI-008 Chapter II		
Definitions		
Capacity serving measure	2.2	Covered
Line measure	2.9	Covered when the gauge mark is a line
Brim measure	2.7	Covered
Transfer measure	2.2	Covered
Capacity	2.7, 2.5, 2.9, 4.6.1	Covered

Essential requirements in MID (Annex I and Annex MI-008 II)	OIML R 138 (2007)	Comment
1		
1.1	5.2.5	Covered when the reference temperature is 20 °C
1.2	4.5	Covered
2	5.1.1, 4.1.1	Covered
3	4.2	Covered
4		
4.1	4.4	Covered
4.2		Not covered
5		
5.1	5.2.1	Covered
5.2	5.2.2	Covered when there are no more than 3 capacities marked
5.3	4.2, 5.2.2	Covered

Note:

The column 'Comment' indicates the compliance between OIML R 138 and the relevant requirement in Directive 2004/22/EC.

The indication 'Covered' means that:

- the requirement of OIML R 138 is identical to the one of MID, or
- the requirement of OIML R 138 is more severe than the one of MID, or
- all of the requirement of OIML R 138 fulfils MID requirements (even when MID allows other alternatives),
- in case the requirement is not fully covered, a short statement explains what is covered.

The indication 'Not covered' means that the MID requirement is either not compatible with the relevant OIML R 138 requirement or not included in OIML R 138.

The indication 'Not relevant' means that the MID Annex I requirement is not relevant for capacity serving measures.