

CERTIFICAT OIML

OIML CERTIFICATE

N° R49/2013-A-FR2-23.05 rév.3

Emis sous régime A Issued under scheme A

Autorité de délivrance
Issuing authority : **Laboratoire National de Métrologie et d'Essais**
Personne responsable (Person responsible) : Emeric MOREL

Demandeur
Applicant : **DIEHL METERING SAS - 67 rue du Rhône** BP 10160
FRANCE 68304 ST LOUIS CEDEX

Fabricant
Manufacturer : **DIEHL METERING SAS 67 rue du Rhône BP 10160**
FRA 68304 ST LOUIS CEDEX

Identification du type certifié : **Compteur d'eau DIEHL METERING type A3 / ALTAIR**

Identification of the certified Water meter DIEHL METERING type A3 / ALTAIR

Caractéristiques
Characteristics : Voir annexe
See annex

Ce certificat atteste la conformité du modèle mentionné ci-dessus (représenté par les échantillons identifiés dans les rapports d'essais associés) aux exigences de la Recommandation suivante de l'Organisation Internationale de Métrologie Légale – OIML) :

This certificate attests the conformity of the above-mentioned pattern (represented by the samples identified in the associated test reports with the requirements of the following Recommendation of the International Organization of Legal Metrology – OIML) :

R49/2013 : Water meters for cold potable water and hot water

Ce certificat s'applique uniquement aux caractéristiques métrologiques et techniques du modèle d'instrument concerné, telles que couvertes par la Recommandation Internationale applicable. Ce certificat ne constitue en rien une approbation internationale à caractère légal. Note importante : à part la mention du numéro de référence du certificat avec le nom de l'Etat Membre de l'OIML dans lequel le certificat a été délivré, une reproduction partielle du certificat ou des rapports d'essais associés n'est pas autorisée, mais ils peuvent être reproduits dans leur totalité.

This certificate relates only to the metrological and technical characteristics of the pattern for the concerned instrument, as covered by the relevant OIML International Recommendation. This certificate does not bestow any form of legal international approval. Important note : Apart from the mention of the certificate's reference number and the name of the OIML Member State in which the certificate was issued, partial quotation of the certificate or the associated test report is not permitted, though they may be reproduced in full.

Les principales caractéristiques figurent dans l'annexe ci-jointe qui fait partie intégrante du certificat OIML de conformité et comprend 14 page(s).

The principal characteristics are set out in the appendix hereto, which forms part of the OIML certificate of conformity and consists of 14 page(s).



Accréditation n°5-0012
Portée disponible sur
www.cofrac.fr



Etabli le 01 juillet 2025

Issued on July 1st, 2025

Autorité de délivrance / Pour Le Directeur Général

Issuing Authority / On behalf of the General Director



Emeric MOREL

Responsable du Département Certification
Instrumentation

Head of Instrumentation Certification Department

Référence LNE - 39216 rév. n°3

Laboratoire national de métrologie et d'essais • Etablissement public à caractère industriel et commercial

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Identification of the certified pattern : A3 / ALTAIR

OIML R 49 EVALUATION REPORT (LNE) : P250252-2

Revision	Date	Modifications
0	06/07/2023	Initial certification
1	30/04/2024	Extension of dynamic measuring range of A3 DN20 water meter to R1000 for $Q_3=4\text{m}^3/\text{h}$ at T30/T50 and R630 for $Q_3=2,5\text{m}^3/\text{h}$. Addition of 20/190 and 20/165 composite bodies and 20/110 brass body.
2	13/11/2024	Addition of A3 DN15mm meters with dynamic measurement R1000H and R800 in all positions for $Q_3=2.5\text{ m}^3/\text{h}$ in T30/T50 and R630H and R500 in all positions for $Q_3=1.6\text{ m}^3/\text{h}$.
3	01/07/2025	Addition of A3 DN15 composite body version Addition of 15/115 1" threaded brass body A3 DN15 version

Metrological characteristics

Type	A3
Version	Linear
Indicating device	Plastic G1, Glass G1
Nominal Diameter	15
Body	Brass
Length (mm)	110 - 115 – 145 – 165 – 170
Connections	Threads 3/4", 7/8", 1"
Position	All positions
Permanent flowrate Q_3 (m³/h)	1.6
Overload flowrate Q_4 (m³/h)	2
Q_3/Q_1 all positions	500
Q_3/Q_1 horizontal position	630
Q_2/Q_1	1,6
Indicating range	9 999 ; 99 999
Verification scale interval (dm³)**	0,020 or 0,050
Cyclical volume (cm³)	38
Temperature class	T30 ; T50
Maximum admissible pressure (bar)	16
Accuracy class	2
Pressure loss class	Δp_{63}
Flow profile sensitivity class	U0D0
Environmental class	B/O
Climatic environment	+5 ... +55°C
Measurement of reverse flow***	no

* Lower values from the OIML R49-1 : 2013 §4.1.4 list are permitted

** In accordance with OIML R49-1 : 2013 §6.7.3.2.3

*** The meter can withstand accidental reverse flow without deterioration or change in its metrological properties for forward flow.

Type	A3
Version	Linear
Indicating device	Plastic G1, Glass G1
Nominal Diameter	15
Body	Brass
Length (mm)	110 - 115 – 145 – 165 – 170
Connections	Threads 3/4", 7/8", 1"
Position	All positions
Permanent flowrate Q_3 (m³/h)	2.5
Overload flowrate Q_4 (m³/h)	3.125
Q_3/Q_1 all positions	800
Q_3/Q_1 horizontal position	1000
Q_2/Q_1	1,6
Indicating range	9 999 ; 99 999
Verification scale interval (dm³)**	0,020 or 0,050
Cyclical volume (cm³)	38
Temperature class	T30 ; T50
Maximum admissible pressure (bar)	16
Accuracy class	2
Pressure loss class	Δp_{63}
Flow profile sensitivity class	U0D0
Environmental class	B/O
Climatic environment	+5 ... +55°C
Measurement of reverse flow***	no

* Lower values from the OIML R49-1 : 2013 §4.1.4 list are permitted

** In accordance with OIML R49-1 : 2013 §6.7.3.2.3

*** The meter can withstand accidental reverse flow without deterioration or change in its metrological properties for forward flow.

Type	A3
Version	Linear
Indicating device	Plastic G1, Glass G1
Nominal Diameter	15
Body	Composite
Length (mm)	110 - 115
Connections	Threads 3/4", 7/8", 1"
Position	All positions
Permanent flowrate Q_3 (m³/h)	1.6
Overload flowrate Q_4 (m³/h)	2
Q_3/Q_1 all positions	500
Q_3/Q_1 horizontal position	630
Q_2/Q_1	1,6
Indicating range	9 999 ; 99 999
Verification scale interval (dm³)**	0,020 or 0,050
Cyclical volume (cm³)	38
Temperature class	T30 ; T50
Maximum admissible pressure (bar)	16
Accuracy class	2
Pressure loss class	Δp_{63}
Flow profile sensitivity class	U0D0
Environmental class	B/O
Climatic environment	+5 ... +55°C
Measurement of reverse flow***	no

* Lower values from the OIML R49-1 : 2013 §4.1.4 list are permitted

** In accordance with OIML R49-1 : 2013 §6.7.3.2.3

*** The meter can withstand accidental reverse flow without deterioration or change in its metrological properties for forward flow.

Type	A3
Version	Linear
Indicating device	Plastic G1, Glass G1
Nominal Diameter	15
Body	Composite
Length (mm)	110 - 115
Connections	Threads 3/4", 7/8", 1"
Position	All positions
Permanent flowrate Q_3 (m3/h)	2.5
Overload flowrate Q_4 (m3/h)	3.125
Q_3/Q_1 all positions	800
Q_3/Q_1 horizontal position	1000
Q_2/Q_1	1,6
Indicating range	9 999 ; 99 999
Verification scale interval (dm3)**	0,020 or 0,050
Cyclical volume (cm3)	38
Temperature class	T30 ; T50
Maximum admissible pressure (bar)	16
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Pressure loss class	Δp_{63}
Flow profile sensitivity class	U0D0
Environmental class	B/O
Climatic environment	+5 ... +55°C
Measurement of reverse flow***	no

* Lower values from the OIML R49-1 : 2013 §4.1.4 list are permitted

** In accordance with OIML R49-1 : 2013 §6.7.3.2.3

*** The meter can withstand accidental reverse flow without deterioration or change in its metrological properties for forward flow.

Type	A3
Version	Linear
Indicating device	Plastic G1, Glass G1
Nominal Diameter	20
Body	Brass
Length (mm)	110 - 130 – 165 – 175 - 190
Connections	Threads 1“, 1 1/4”
Position	All positions
Permanent flowrate Q_3 (m³/h)	2.5
Overload flowrate Q_4 (m³/h)	3.125
Q_3/Q_1	630
Q_2/Q_1	1,6
Indicating range	9 999 ; 99 999
Verification scale interval (dm³)**	0,020 or 0,050
Cyclical volume (cm³)	59.9
Temperature class	T30 ; T50
Maximum admissible pressure (bar)	16
Accuracy class	2
Pressure loss class	Δp_{63}
Flow profile sensitivity class	U0D0
Environmental class	B/O
Climatic environment	+5 ... +55°C
Measurement of reverse flow***	no

* Lower values from the OIML R49-1 : 2013 §4.1.4 list are permitted

** In accordance with OIML R49-1 : 2013 §6.7.3.2.3

*** The meter can withstand accidental reverse flow without deterioration or change in its metrological properties for forward flow.

Type	A3
Version	Linear
Indicating device	Plastic G1, Glass G1
Nominal Diameter	20
Body	Brass
Length (mm)	110 - 130 – 165 – 175 - 190
Connections	Threads 1", 1 1/4"
Position	All positions
Permanent flowrate Q_3 (m³/h)	4
Overload flowrate Q_4 (m³/h)	5
Q_3/Q_1	1000
Q_2/Q_1	1,6
Indicating range	9 999 ; 99 999
Verification scale interval (dm³)**	0,020 or 0,050
Cyclical volume (cm³)	59.9
Temperature class	T30 ; T50
Maximum admissible pressure (bar)	16
Accuracy class	2
Pressure loss class	Δp_{63}
Flow profile sensitivity class	U0D0
Environmental class	B/O
Climatic environment	+5 ... +55°C
Measurement of reverse flow***	no

* Lower values from the OIML R49-1 : 2013 §4.1.4 list are permitted

** In accordance with OIML R49-1 : 2013 §6.7.3.2.3

*** The meter can withstand accidental reverse flow without deterioration or change in its metrological properties for forward flow.

Type	A3
Version	Linear
Indicating device	Plastic G1, Glass G1
Nominal Diameter	20
Body	Composite
Length (mm)	165 – 190
Connections	Threads 1"
Position	All positions
Permanent flowrate Q_3 (m³/h)	2.5
Overload flowrate Q_4 (m³/h)	3.125
Q_3/Q_1	630
Q_2/Q_1	1,6
Indicating range	9 999 ; 99 999
Verification scale interval (dm³)**	0,020 or 0,050
Cyclical volume (cm³)	59.9
Temperature class	T30 ; T50
Maximum admissible pressure (bar)	16
Accuracy class	2
Pressure loss class	Δp_{63}
Flow profile sensitivity class	U0D0
Environmental class	B/O
Climatic environment	+5 ... +55°C
Measurement of reverse flow***	no

* Lower values from the OIML R49-1 : 2013 §4.1.4 list are permitted

** In accordance with OIML R49-1 : 2013 §6.7.3.2.3

*** The meter can withstand accidental reverse flow without deterioration or change in its metrological properties for forward flow.

Type	A3
Version	Linear
Indicating device	Plastic G1, Glass G1
Nominal Diameter	20
Body	Composite
Length (mm)	165 – 190
Connections	Threads 1"
Position	All positions
Permanent flowrate Q_3 (m³/h)	4
Overload flowrate Q_4 (m³/h)	5
Q_3/Q_1	1000
Q_2/Q_1	1,6
Indicating range	9 999 ; 99 999
Verification scale interval (dm³)**	0,020 or 0,050
Cyclical volume (cm³)	59.9
Temperature class	T30 ; T50
Maximum admissible pressure (bar)	16
Accuracy class	2
Pressure loss class	Δp_{63}
Flow profile sensitivity class	U0D0
Environmental class	B/O
Climatic environment	+5 ... +55°C
Measurement of reverse flow***	no

* Lower values from the OIML R49-1 : 2013 §4.1.4 list are permitted

** In accordance with OIML R49-1 : 2013 §6.7.3.2.3

*** The meter can withstand accidental reverse flow without deterioration or change in its metrological properties for forward flow.

Type	A3
Version	Concentric
Indicating device	Plastic G1, Glass G1
Body	Brass or composite
Connections	G 1 ½" B
Position	All positions
Permanent flowrate Q_3 (m³/h)	2.5
Overload flowrate Q_4 (m³/h)	3.125
Q_3/Q_1	630
Q_2/Q_1	1,6
Indicating range	9 999 ; 99 999
Verification scale interval (dm³)**	0,020 or 0,050
Cyclical volume (cm³)	59.9
Temperature class	T30 ; T50
Maximum admissible pressure (bar)	16
Accuracy class	2
Pressure loss class	Δp_{63}
Flow profile sensitivity class	U0D0
Environmental class	B/O
Climatic environment	+5 ... +55°C
Measurement of reverse flow***	no

* Lower values from the OIML R49-1 : 2013 §4.1.4 list are permitted

** In accordance with OIML R49-1 : 2013 §6.7.3.2.3

*** The meter can withstand accidental reverse flow without deterioration or change in its metrological properties for forward flow.

Type	A3
Version	Concentric
Indicating device	Plastic G1, Glass G1
Body	Brass or composite
Connections	G 1 ½" B
Position	All positions
Permanent flowrate Q_3 (m³/h)	4
Overload flowrate Q_4 (m³/h)	5
Q_3/Q_1	1000
Q_2/Q_1	1,6
Indicating range	9 999 ; 99 999
Verification scale interval (dm³)**	0,020 or 0,050
Cyclical volume (cm³)	59.9
Temperature class	T30 ; T50
Maximum admissible pressure (bar)	16
Accuracy class	2
Pressure loss class	Δp_{63}
Flow profile sensitivity class	U0D0
Environmental class	B/O
Climatic environment	+5 ... +55°C
Measurement of reverse flow***	no

* Lower values from the OIML R49-1 : 2013 §4.1.4 list are permitted

** In accordance with OIML R49-1 : 2013 §6.7.3.2.3

*** The meter can withstand accidental reverse flow without deterioration or change in its metrological properties for forward flow.

Type	A3
Version	Concentric MCI
Indicating device	Plastic G1, Glass G1
Body	Composite
Length (mm)	105 mm (flow-up body) 190 mm (horizontal body)
Connections	G3B
Position	All positions
Permanent flowrate Q_3 (m³/h)	2.5
Overload flowrate Q_4 (m³/h)	3.125
Q_3/Q_1	630
Q_2/Q_1	1,6
Indicating range	9 999 ; 99 999
Verification scale interval (dm³)**	0,020 or 0,050
Cyclical volume (cm³)	59.9
Temperature class	T30 ; T50
Maximum admissible pressure (bar)	16
Accuracy class	2
Pressure loss class	Δp_{63}
Flow profile sensitivity class	U0D0
Environmental class	B/O
Climatic environment	+5 ... +55°C
Measurement of reverse flow***	no

* Lower values from the OIML R49-1 : 2013 §4.1.4 list are permitted

** In accordance with OIML R49-1 : 2013 §6.7.3.2.3

*** The meter can withstand accidental reverse flow without deterioration or change in its metrological properties for forward flow.

Type	A3
Version	Concentric MCI
Indicating device	Plastic G1, Glass G1
Body	Composite
Length (mm)	105 mm (flow-up body) 190 mm (horizontal body)
Connections	G3B
Position	All positions
Permanent flowrate Q_3 (m³/h)	4
Overload flowrate Q_4 (m³/h)	5
Q_3/Q_1	1000
Q_2/Q_1	1,6
Indicating range	9 999 ; 99 999
Verification scale interval (dm³)**	0,020 or 0,050
Cyclical volume (cm³)	59.9
Temperature class	T30 ; T50
Maximum admissible pressure (bar)	16
Accuracy class	2
Pressure loss class	Δp_{63}
Flow profile sensitivity class	U0D0
Environmental class	B/O
Climatic environment	+5 ... +55°C
Measurement of reverse flow***	no

* Lower values from the OIML R49-1 : 2013 §4.1.4 list are permitted

** In accordance with OIML R49-1 : 2013 §6.7.3.2.3

*** The meter can withstand accidental reverse flow without deterioration or change in its metrological properties for forward flow.

Picture

Actual meter name and presentation may differ. Legal markings may differ according to local regulation.



*Water meter Diehl metering type A3
DN20 linear hot and cold water*



*Water meter Diehl metering type A3
concentric hot and cold water*



*Water meter Diehl metering type A3
DN20 concentric MCI hot and cold
water*