

CERTIFICAT OIML

OIML CERTIFICATE

N° R49/2013-A-FR2-22.01 rev.0

Emis sous régime A Issued under scheme A

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

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

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

Identification du type certifié : Compteur d'eau DIEHL METERING type A2 / ALTAIR

Identification of the certified : Water meter DIEHL METERING type A2 / ALTAIR

Caractéristiques : voir annexe
Characteristics : 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 8 page(s).

The principal characteristics are set out in the appendix hereto, which forms part of the OIML certificate of conformity and consists of 8 page(s).



Etabli le 28 novembre 2022
Issued on November 28th, 2022
Autorité de délivrance / Pour Le Directeur Général
Issuing Authority / On behalf of the General Director



Thomas LOMMATZSCH
Responsable du Pôle Certification Instrumentation et
Technologies de l'Information
Head of the Instrumentation and IT Certification

Référence LNE - 38691 rév. n°0

Identification of the certified pattern : A2 / ALTAİR

OIML R 49 EVALUATION REPORT (LNE) : P220056-1

Metrological characteristics

Type	A2	
Version	Linear	
Indicating device	Plastic G1, glass G1, Plastic IS	
Nominal Diameter	15	
Body	Brass or composite	
Length (mm)	105...191	
Connections	Threads 1/2", 5/8", 7/8", 3/4", 1", 1 1/8", 1 1/4"	
Permanent flowrate Q₃ (m³/h)	1,6	2,5
Overload flowrate Q₄ (m³/h)	2	3,125
Q₃/Q₁*	630	800
Q₂/Q₁	1,6	
Position	All positions	
Indicating range	9 999 ; 99 999	
Verification scale interval (dm³)**	0,020	
Cyclical volume (cm³)	38	
Temperature class	T30 ; T50	
Maximum admissible pressure (bar)	16	
Accuracy class	2	
Pressure loss class	Δp63	
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	A2	
Version	Linear	
Indicating device	Plastic G1, glass G1, Plastic IS	
Nominal Diameter	15	
Body	Brass	
Length (mm)	110	
Connections	Threads 3/4"	
Permanent flowrate Q_3 (m³/h)	1,6	2,5
Overload flowrate Q_4 (m³/h)	2	3,125
Q_3/Q_1^*	250	400
Q_2/Q_1	1,6	
Position	All positions	
Indicating range	9 999 ; 99 999	
Verification scale interval (dm³)**	0,020	
Cyclical volume (cm³)	38	
Temperature class	T30/90	
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	A2	
Version	Concentric / linear (Type A and B EN14154-2 2005+A2 2012)	
Indicating device	Plastic G1, glass G1, Plastic IS	Plastic G1, glass G1
Nominal Diameter	15	20
Body	Brass and composite	
Length (mm)	105...191	
Connections	5/8", 3/4", 7/8", 1", 1 1/4", 1 1/2"	
Permanent flowrate Q₃ (m³/h)	2,5	4
Overload flowrate Q₄ (m³/h)	3,125	5
Q₃/Q₁*	500	630
Q₂/Q₁	1,6	
Position	All positions	
Indicating range	9 999 ; 99 999	
Verification scale interval (dm³)**	0,020 or 0,050	
Cyclical volume (cm³)	55	
Temperature class	T30 ; T50	
Maximum admissible pressure (bar)	16	
Accuracy class	2	
Pressure loss class	Δp63	
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	A2
Version	Concentric MCI
Indicating device	Plastic G1, glass G1
Nominal Diameter	20
Body	Brass and composite type CRI & Y
Length (mm)	190 (horizontal body in brass or composite), 105 (up flow body in brass)
Connections	Threads G3B
Permanent flowrate Q_3 (m³/h)	4
Overload flowrate Q_4 (m³/h)	5
Q_3/Q_1^*	400
Q_2/Q_1	1,6
Position	All positions
Indicating range	9 999 ; 99 999
Verification scale interval (dm³)**	0,020 or 0,050
Cyclical volume (cm³)	55
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	A2
Version	Linear
Indicating device	Plastic G1, glass G1
Nominal Diameter	40
Body	Brass
Length (mm)	300
Connections	Threads 2"
Permanent flowrate Q_3 (m³/h)	16
Overload flowrate Q_4 (m³/h)	20
Q_3/Q_1^*	1000
Q_2/Q_1	1,6
Position	All positions
Indicating range	9 999 ; 99 999
Verification scale interval (dm³)**	0,020 or 0,050
Cyclical volume (cm³)	315
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	A2
Version	Linear
Indicating device	Plastic G1, glass G1
Nominal Diameter	25-32
Body	Brass
Length (mm)	260
Connections	Threads 1 1/4" ; 1 1/2"
Permanent flowrate Q₃ (m³/h)	10
Overload flowrate Q₄ (m³/h)	12,5
Q₃/Q₁*	500
Q₂/Q₁	1,6
Position	All positions
Indicating range	9 999 ; 99 999
Verification scale interval (dm³)**	0,020 or 0,050
Cyclical volume (cm³)	315
Temperature class	T30 ; T50
Maximum admissible pressure (bar)	16
Accuracy class	2
Pressure loss class	Δp63
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	A2
Version	Linear
Indicating device	Glass G1
Nominal Diameter	25-32
Body	Brass
Length (mm)	260
Connections	Threads 1 1/4" ; 1 1/2"
Permanent flowrate Q₃ (m³/h)	6,3
Overload flowrate Q₄ (m³/h)	7,875
Q₃/Q₁*	800
Q₂/Q₁	1,6
Position	All positions
Indicating range	9 999 ; 99 999
Verification scale interval (dm³)**	0,020 or 0,050
Cyclical volume (cm³)	110
Temperature class	T30 ; T50
Maximum admissible pressure (bar)	16
Accuracy class	2
Pressure loss class	Δp63
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.

Pictures

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



*Water meter Diehl metering type A2 / ALTAİR
DN15 composite and brass*



*Water meter Diehl metering type A2 /
ALTAİR DN 20 brass*



*Water meter Diehl metering
type A2 / ALTAİR DN 20
composite*



*Water meter Diehl metering
type A2 / ALTAİR DN 25 / 32
brass*



*Water meter Diehl metering
type A2 / ALTAİR DN 40 brass*