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Registration No.: 1513

LNE
National
Laboratory for
Metrology and
Testing

Notified body no. 0071

EU DESIGN EXAMINATION CERTIFICATE

No. LNE - 23189 rev. 4 of October 8, 2018
Amended the certificate 23189-3

Issued by : National Laboratory for Metrology and Testing

In accordance with : Directive 2014/32/EU, Module B

Manufacturer : GANZ METER COMPANY Ltd – Tancsics Mihalyutca 11
HUNGARY – 2101 - GODOLLO

Authorized : ----

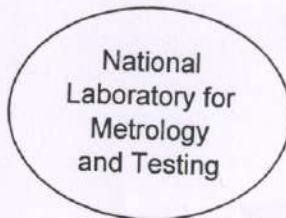
In respect of : Water meter ITRON type WOLTEX (WE)

Characteristics : See appendix

Valid until : April 23, 2022

The principal characteristics, approval conditions are set out in the appendix hereto, which forms part of the approval documents and consists of 12 page(s). All the plans, schematic diagrams and documentations are recorded by National Laboratory for Metrology and Testing under reference file P186178-1.

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Issued on October 08, 2018

On behalf of the General Director

Thomas LOMMATZSCH
Head of the Instrumentation and IT Certification

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CIM2-V9-12-2018

**Annex to the EU examination certificate type with
no. LNE-23189 rev. 4**

Supplement relating to the designation of the type

These instruments can be marketed under different trade names, which differ only in relation to their presentation.

Description

The Woltex-type ITRON cold water meter comprises a dry register and direct magnetic drive.

Operation:

Water enters the measuring mechanism via the inlet nozzle, causes the rotation of the propeller by flowing into the chamber and is evacuated by the outlet nozzle.

The rotation of propeller is passed through the meter and the door wheel, magnet meter that displays the volume of water passed through the meter.

View of a model:



It consists of:

- a sealed housing
- a measuring unit
- an indicator device
- an adjustment system.

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Housing

It consists of:

A metal cover fitted with two :

- flanged nozzles
- two arrows located on each side indicating the direction of the water flow and in which a conditioner is integrated for the WE100 / WE125 / WE150

A metal plate fitted with:

- a housing for receiving the totalizer on its upper part
- an O-ring ensuring the sealing by means of screws

Measuring unit

It is Woltmann-type unit, fitted with a horizontal propeller, and consists of:

- A stator and an outlet bearing which is the chamber of the entire propeller
- An overmolded in plastic, on which is assembled a stone

This is guided in rotation by means:

- o of the stator in which:
 - the conditioner is integrated for WE50/WE65/WE80
 - encapsulated a pivot.
- o Of the output bearing without which a pivot is encapsulated. The axial support of the propeller is ensured on a ball.
- An encapsulated transmission shaft, guided by a tread, a pinion and a magnet wheel, which provide communication between the propeller and the totaliser.

The indicator device

This device consists of a glass-metal totaliser.

The totaliser can be rotated in right direction on site. It is protected by a cap, a crenellated disc bearing the regulatory registrations and an indicator cover. Two totaliser resolutions exist.

Adjusting device

This device consists of an assembled damper, held by the adjustment plug and the o-ring, and then communicates with an adjustment quadrant, which meshes with the overmolded adjusting pinion. The setting is performed manually on the overmolded adjusting pinion, whose rotation is transmitted to the adjustment quadrant. The adjustment quadrant transmits the rotation to the damper, which deviates part of the flow.

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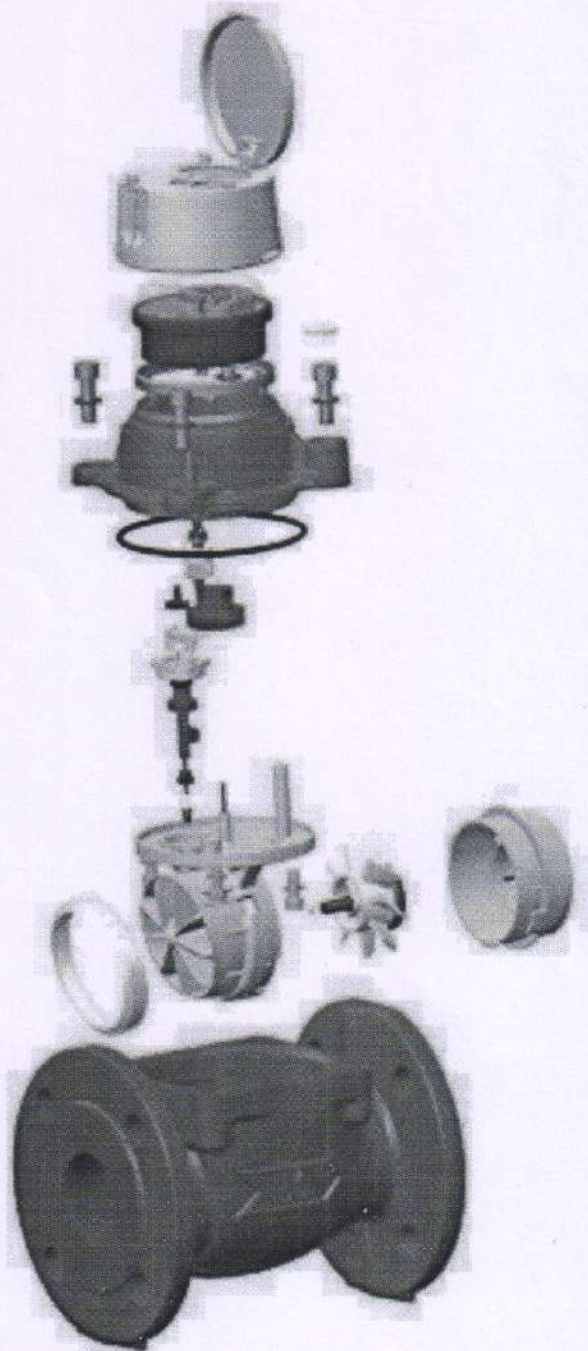
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Exploded view of the ITRON Woltex type water meter

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Characteristics

Type	WE50/ MWE50	WE65/ MWE65	WE80/ MWE80	WE100-WE125/ MWE100-MWE125		WE150/MWE150	
Nominal Diameter DN (mm)	50	65	80	100/125		150	
Length (mm)	200/210/ 300/312	200/220/ 225/300	200/220/ 225/350	250/290		300/340	
Connections	Flange DN 50	Flange DN65	Flange DN80	Flange DN 100 and DN125		Flange DN 150	
Totalisers	TVM/Glass Metal						
Range of totalisers (m ³)	999 999 or 9 999 999					9 999 999*	
Scale of verification (dm ³)	0.2 or 2					2*	
Theoretical cyclic volume (dm ³)	19					200	
Permanent Flow rate Q3 (m ³ /h)	40	63	100	100	160	250	400
Overhead Flowrate Q4 (m ³ /h)	50	78.7	125	125	200	312.5	500
Dynamic Q3/Q1	100	100	100	100	160	100	160
Dynamic Q2/Q1	1.6						

For a given nominal flowrate (Q3), the values of Q₃/Q₁ smaller than the values listed in the above table are authorised. However, the values of this ratio cannot be lower than 40.

* The totaliser version with a range of 99 999 999 m³ (verification scale 20 dm³) can be used up to Q₁ = 3.125 m³/h inclusive.

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**Annex to the EU examination certificate type with
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Characteristics (continued)

Type	WE50/ MWE50	WE65/ MWE65	WE80/ MWE80	WE100-WE125/MWE100- MWE125	WE150/MWE150
Orientation	Horizontal or Vertical				
Accuracy Class	2				
Maximum permissible pressure (bar)	20				
Class of sensitivity to the flow profile according to EN14154 S= stab, type SD3	U0D0				
Pressure loss class (according to En 14154 at Q3)	Δp_{16}	Δp_{40}	Δp_{10} (DN100) Δp_{16} (DN125)	Δp_{25} (DN100) Δp_{40} (DN125)	Δp_{16}
Water temperature class	+0.1°C....+30°C				
Climatic Environment	-10°C....+70°C				
Mechanical environment class	N/A				
Magnetic environment class	N/A				
Reverse flow measurement **	No				

** The meter is not designed to measure reverse flows but can withstand an accidental reverse flow without undergoing any damage or change in metrological properties.

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Type	WE200/MWE200	WE250/MWE250	WE300/MWE300
Nominal Diameter DN (mm)	200	250	300
Length (mm)	350	450	500
Connections	Flange DN 200	Flange DN 250	Flange ND 300
Totalisers	TVM/Glass Metal		
Range of totalisers (m ³)	9 999 999 or 99 999 999		
Scale of verification (dm ³)	2 or 20		
Theoretical cyclic volume (dm ³)	200		
Permanent Flow rate Q3 (m ³ /h)	630 ; 400 ; 250	1000	1600
Overhead Flow rate Q4 (m ³ /h)	787.5	1250	2000
Dynamic Q3/Q1	40	40	80
Dynamic Q2/Q1	1.6		

For a given nominal flow rate (Q3), the values of Q3/Q1 smaller than the values listed in the above table are authorised. However, the values of this ratio cannot be lower than 40.

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**Annex to the EU examination certificate type with
no. LNE-23189 rev. 4**

Type	WE200/MWE200	WE250/MWE250	WE300/MWE300
Orientation	Horizontal		
Accuracy Class	2		
Maximum allowable pressure (bar)	20		
Class of sensitivity to the flow profile according to EN14154 S= stab, type SD3	U0D0		
Class of pressure loss (according to En 14154 at Q3)	Δp25		
Scope of the water temperature	+0.1°C ... +30°C		
Climatic environment	-10°C ...+70°C		
Mechanical environmental class to mechanical	N/A		
Magnetic Environment	N/A		
Reverse flow measurement**	No		

** The meter is not designed to measure reverse flows but can withstand an accidental reverse flow without undergoing any damage or change in metrological properties.

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Special installation conditions

See class of sensitivity of the flow profile in the table of characteristics.

Special operating conditions.

Horizontal or vertical position

Special verification conditions (if required)

The WE-type ITRON cold water meter must be verified in a horizontal position, with a water temperature between 10 °C and 30 °C and with the following flow rates and maximum permissible errors:

- between Q_1 and $1.1 \times Q_1$: $\pm 5\%$,
- between Q_2 and $1.1 \times Q_2$: $\pm 2\%$,
- between $0.9 \times Q_3$ and Q_3 : $\pm 2\%$,

The tested flow rates must match the values of Q_3 , of Q_3/Q_1 and of Q_2/Q_1 shown on the WOLTEX-type ITRON water meter.

The test conditions must meet the provisions set forth in the harmonized standard:
EN 14154-1:2005+A2:2011 §9.2

If all the errors (of indication) of the water meter have the same sign, one of the errors at least should not exceed half of the maximum permissible error.

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Interchangeable mechanisms

The mechanism of the Woltex meter meets the interchange ability requirements of standard EN 14154-1:2005+A2:2011 §8.2.



Enveloppe étanche et mécanisme



Compteur assemblé

Securing and sealing

DN50 to DN80

The seal is made:

- By clipping the cap on the plate, this seal prevents the access to the indicator device and the setting of the measuring assembly.
- a sealing pellet masking the head of the fixing/mounting screw for the plate in its counter bore, this seal prevents the access to the whole measuring system.
- These pellets will be marked with the logo "Itron" in accordance with the representation of the below figure.

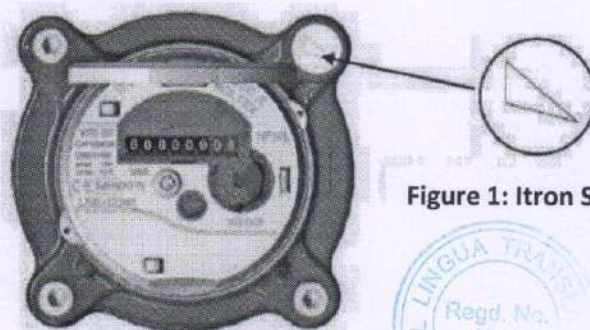


Figure 1: Itron Sealing

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DN 100 to 300

Sealing is made by embedding:

- The two sealing pellets masking the head of the fixing/mounting screw for the cap, this seal prevents the access to the indicator device and the setting of the measuring assembly.
- a sealing pellet by masking the head of the fixing/mounting screw for the plate in its counter bore, this seal prevents the access to the whole measuring system.

These pellets will be marked with the logo "Itron" in accordance with the representation of the below figure:

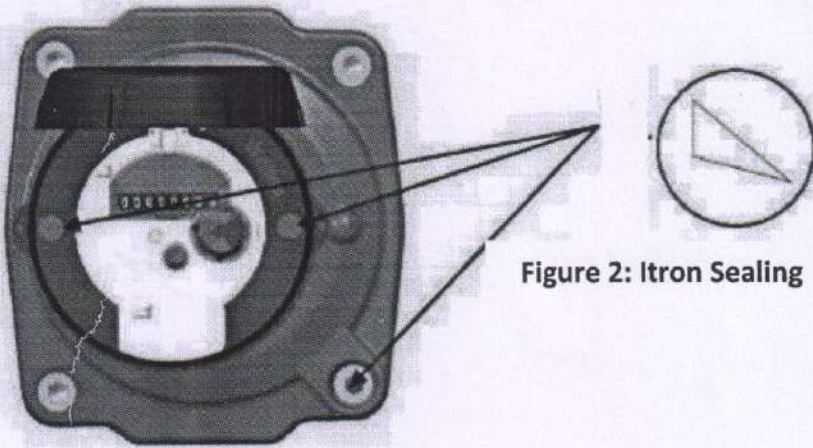


Figure 2: Itron Sealing

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Marking and inscriptions

The additional metrology marking consists of capital letter "M" and the last two digits of the year during which it was affixed, surrounded by a rectangle.

Class of sensitivity to flow profile	Serial number	Value of Q3 and of the Q3/Q1 ratio	Orientation of the meter
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Value of MAP	Class of the pressure drop when different from $\Delta p 63$	Manufacturer's Name	Measuring unit
Type of meter			

Trade Name	Approval number	Approvals sign: (CE marking + year of manufacture + notified body no.)
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Appendix of the EC design examination certificate No. LNE-23696 rev. 4

Revision History

Revision	Date	Subject
0	24/04/2012	Initial certification
1	06/02/2015	Modification of the design of the Woltex DN150 (addition of an integrated flow conditioner, double Q ₃), addition of DN80 to the certified family
2	23/06/2017	Addition of the interchangeable mechanisms paragraph Modification of Q ₃ /Q ₁ , for Woltex 100/125 Addition of new calibres DN200, DN250 and DN300 Add to the mention: "The postal address to which the manufacturer can be contacted must also appear on the meter." Modification of the design to improve performance (dynamics and sensitivity to the flow profile)
3	31/01/2018	Modification of the seal: replacing A67 by the ITRON logo
4	08/10/2018	Addition to Q ₃ = 400m ³ /h et Q ₃ = 250m ³ /h for DN 200

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Date: August 7, 2020

Translated document(s): Certificates

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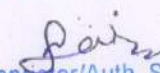
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