



Member State of OIML
United Kingdom of Great Britain
and Northern Ireland

OIML Certificate No
R49/2006-GB1-08.01
Revision 2

OIML CERTIFICATE OF CONFORMITY

Issuing authority: **National Measurement Office**

Person responsible: **Paul Dixon – Director, Product Certification**

Applicant: **Elster Water Metering Limited**
130 Camford Way
Sundon Park
Luton, Bedfordshire
LU3 3AN
United Kingdom

Manufacturer: **The applicant**

Identification of the certified pattern **Family of cold-water meters utilising a common, volumetric measuring element, with a nominal capacity of 13.2 revs/litre and having a rated permanent flowrate Q_3 of 6.3 m³/h. Further characteristics see page 2**

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

OIML:	R49
Edition:	2006 (E)
Accuracy class:	2

This certificate relates only to the metrological and technical characteristics of the pattern of the instrument concerned, as covered by the relevant OIML International Recommendation.

This certificate does not bestow any form of legal international approval.

This revision replaces previous versions of the certificate.

Issue Date: 09 July 2014
Reference No: T1151/0002

Signatory: G E Stones



The conformity was established by tests described in the associated test report M049205-R49-d having 66 pages, which includes the associated pattern evaluation checklist.

Characteristics:

Model Name	Q ₃ /Q ₁ (R)			
	315	250	200	160
V100	✓	✓	✓	✓
V110	✓	✓	✓	✓
V200	✓	✓	✓	✓
V210	✓	✓	✓	✓

Q ₃ /Q ₁ (R)	315	250	200	160
Q ₂ /Q ₁	1.6	1.6	1.6	1.6
Q ₁ Minimum flowrate (m ³ /h)	0.02	0.0252	0.0315	0.039375
Q ₂ Transitional flowrate (m ³ /h)	0.032	0.04032	0.0504	0.063
Q ₃ Permanent flowrate (m ³ /h)	6.3	6.3	6.3	6.3
Q ₄ Overload flowrate (m ³ /h)	7.875	7.875	7.875	7.875

Measuring principle:	Semi-positive displacement meter (13.2 revs/litre)
Accuracy Class:	2
Environmental class:	T30 (MAT)
Electromagnetic environment:	N/A
Maximum admissible temperature:	30 °C
Maximum admissible pressure:	1.6 Mpa (16 bar)
Orientation requirements:	None

Installation details

Connection type (flange, screw thread, concentric manifold):	V100, V110, V200, V210
Minimum straight length of inlet pipe:	non specified
Minimum straight length of outlet pipe:	non specified
Flow conditioner (details if required):	This type of meter is not susceptible to flow disturbances

Mounting

Orientation:	Can be installed in any position
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Other relevant information:

V200 and V210 meters

Inductive or resonant pointer and sensor unit (optional)

The meter register is equipped with a metallic pointer on the first element of the verification scale. Two bosses and two holes on the shroud enable the option of an inductive sensor to be fitted to the meter shroud.

Reed switch sensor (optional)

The meter register is equipped with a magnetic pointer on the first element of the verification scale. The reed switch sensor is fitted to the meter shroud.

V100 and V110 meters

Reed switch sensor (optional)

The meter register is equipped with a magnet on the first element of the verification scale. The reed switch sensor is fitted in a pocket within the meter housing, in close proximity to the magnet.

Certificate History:

ISSUE NO.	DATE	DESCRIPTION
R49/2006-GB1-08.01	24 November 2008	Certificate first issued.
R49/2006-GB1-08.01 Revision 1	22 January 2009	Revision 1 issued. Meter model V210 added. Section 3.1 updated to cover all values of R for each meter model. Customer address updated. Certificate history added.
R49/2006-GB1-08.01 Revision 2	09 July 2014	Revision 2 issued. Front page: Elster Water Metering name change. Other relevant information: V210 and V200: resonant pointer added

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