



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



OIML Certificate No  
R49/2006-GB1-08.01  
Revision 1

## OIML CERTIFICATE OF CONFORMITY

Issuing authority

Name: **National Weights and Measures Laboratory**  
Address: **Stanton Avenue  
Teddington  
Middlesex  
TW11 0JZ  
United Kingdom**

Person responsible: **Paul Dixon - Product Certification Manager**

Applicant

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

Manufacturer of the certified pattern is 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 Q3 of 6.3 m<sup>3</sup>/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 Organization of Legal Metrology (OIML):

<b>OIML:</b>	<b>R49</b>
<b>Edition:</b>	<b>2006 (E)</b>
<b>Accuracy class:</b>	<b>2</b>

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.

OIML Certificate No  
R49-1/2006-GB1-08.01 Revision 1

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

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.

This revision replaces previous versions of the certificate.

Issuing authority



Mr P R Dixon  
for NWML

CIML member



Mr P Mason

Date 22<sup>nd</sup> January 2009

Ref: T1151/0001

Characteristics:

Model Name	Q3/Q1 (R)			
	315	250	200	160
V100	✓	✓	✓	✓
V110	✓	✓	✓	✓
V200	✓	✓	✓	✓
V210	✓	✓	✓	✓

Q3/Q1 (R)	315	250	200	160
Q2/Q1	1.6	1.6	1.6	1.6
Q1 Minimum flowrate (m3/h)	0.02	0.0252	0.0315	0.039375
Q2 Transitional flowrate (m3/h)	0.032	0.04032	0.0504	0.063
Q3 Permanent flowrate (m3/h)	6.3	6.3	6.3	6.3
Q4 Overload flowrate (m3/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

Other relevant information:

**V200 and V210 meters**

**Inductive 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.

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 of the associated test report is not permitted, though they may be reproduced in full.