



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

OIML Certificate No
R49-1/2006-GB1-07.01

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: **Pondwicks Road
Luton
Bedfordshire
LU1 3LJ**

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 36 revs/litre and having a rated permanent flowrate Q3 of 2.5m³/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):

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.

The conformity was established by tests described in the associated test report M034805 having 24 pages, test report 001787B having 4 pages and associated pattern evaluation checklist F20210 having 28 pages.

Issuing authority



Mr P R Dixon
for NWML

CIML member



Mr P Mason

Date 8th November 2007

Ref: T1151/0001

Characteristics:

Model Name	Q ₃ /Q ₁ (R)				
	400	315	250	200	160
V100	✓	✓	✓	✓	✓
V110	✓	✓	✓	✓	✓
V200	✓	✓	✓	✓	✓
V210	✓	✓	✓	✓	✓
V230			✓	✓	✓

Q ₃ /Q ₁ (R)	400	315	250	200	160
Q ₂ /Q ₁	1.6	1.6	1.6	1.6	1.6
Q1 Minimum flowrate (m ³ /h)	0.00625	0.00794	0.01000	0.01250	0.01563
Q2 Transitional flowrate (m ³ /h)	0.01000	0.01270	0.01600	0.02000	0.02500
Q3 Permanent flowrate (m ³ /h)	2.5	2.5	2.5	2.5	2.5
Q4 Overload flowrate (m ³ /h)	3.125	3.125	3.125	3.125	3.125

Measuring principle:

Semi-positive displacement meter (36 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, V230, (screw thread)
V210 (concentric)

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:

V210 and V200 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.

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