National Measurement Office

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

OIML Certificate No
R49/2006-GB1-11.03

OIML CERTIFICATE OF CONFORMITY

Issuing authority: **National Measurement Office**

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

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

Manufacturer: **Elster Metering Limited**

Identification of the certified pattern: **Family of cold-water meters utilising a common volumetric measuring element, with a nominal capacity of 3.25 revs/litre and having a Q3 of 10 m3/h or 16 m3/h. Further characteristics see pages 2 & 3.**

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 R 49 - Edition 2006(E) for 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.

Important note: Apart from the mention of the certificates 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.

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Reference No: **TS02/0004**

Signatory: **P R Dixon**

UKAS PRODUCT CERTIFICATION 0135

BIS Department for Business Innovation & Skills

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The conformity was established by tests described in the associated test report M087505-14154 having 94 pages and the associated pattern evaluation report P00462.

Characteristics:
Meters with Q_3 = 10m^3/hr

Permitted flow designation by model

Model Name	Q_3/Q_1 (R)
	80
V100, V200	✓

Related flowrates according to each Q_3/Q_1 designation

Q_3/Q_1 (R)	80
Q_2/Q_1	1.6
Q_1 Minimum flowrate (m^3/h)	0.1250
Q_2 Transitional flowrate (m^3/h)	0.2000
Q_3 Permanent flowrate (m^3/h)	10
Q_4 Overload flowrate (m^3/h)	12.5

Meters with Q_3 = 16 m^3/hr

Permitted flow designation by model

Model Name	Q_3/Q_1 (R)			
	200	160	100	80
V100	✓	✓	✓	✓

Related flowrates according to each Q_3/Q_1 designation

Q_3/Q_1 (R)	200	160	100	80
Q_2/Q_1	1.6	1.6	1.6	1.6
Q_1 Minimum flowrate (m^3/h)	0.0800	0.1000	0.1600	0.2000
Q_2 Transitional flowrate (m^3/h)	0.1280	0.1600	0.2560	0.3200
Q_3 Permanent flowrate (m^3/h)	16	16	16	16
Q_4 Overload flowrate (m^3/h)	20	20	20	20

Measuring principle:		Semi-positive displacement meter
Accuracy Class:		2
Environmental class:	T	30 (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, V200
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

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

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.