# Physikalisch-Technische Bundesanstalt

### Braunschweig und Berlin

Member State of OIML Germany



OIML Certificate No. R49/2006-DE1-08.02 Revision 4

### OIML CERTIFICATE OF CONFORMITY

### **Issuing Authority**

Name: Physikalisch-Technische Bundesanstalt Address: Bundesallee 100, 38116 Braunschweig

Person responsible: Dr. Gudrun Wendt

**Applicant** 

Name: Elster Metering Limited

Address: 130 Camford Way

Sundon Park

Luton, Bedfordshire

LU3 3AN

**United Kingdom** 

Manufacturer of the certified type is the applicant and

Elster Metering LTD (Circle Ring Network) No. 10 Jalan Jurutera U1/23, Section U1 Kawasan Perindustrial Hicom Glenmarie 40150 Shah Alam, Selangor Darul Ehsan

Malaysia

and

Elster s.r.o.

Nám. Dr. Alberta Schweitzera 194

91601 Stará Turá Slovenská republika

Identification of the certified type

Water meter intended for the metering of cold potable water Type: SM100, SM100E, SM100P or SM001, SM001E, SM001P

SM150, SM150E, SM150P SM250, SM250E, SM250P SM700, SM700E, SM700P

Further characteristics see page 3

## Physikalisch-Technische Bundesanstalt

OIML Certificate No. R49/2006-DE1-08.02 **Revision 4** 

This Certificate attests the conformity of the above identified type (represented by the sample or samples identified in the associated Test Report) with the requirements of the following Recommendation of the International Organization of Legal Metrology (OIML):

R49-1 (2006): Metrological and technical requirements

R49-2 (2006): Test methods R49-3 (2006): Test report format

This Certificate relates only to the metrological and technical characteristics of the type of instrument covered by the relevant OIML Recommendation identified above.

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

The conformity was established by the results of tests and examinations provided in the associated Report No.

PTB-1.5-4036396, Revision 2 (94 pages) and Test Report No. PTB-1.5-4025664, Revision 4 (95 pages).

#### The Issuing Authority

The CIML Member

Dr. G. Wendt **Head of Department** 

Dr. R. Schwartz Head of Division

07.06.2012

07.06.2012

Important note: Apart from the mention of the Certificate's reference number and the name of the OIML Member State in which the Certificate is issued, partial quotation of the Certificate and of the associated Test Report(s) is not permitted, although either may be reproduced in full.

# Physikalisch-Technische Bundesanstalt

OIML Certificate No. R49/2006-DE1-08.02 Revision 4

Identification of the certified pattern – page 1 continued

### Metrology characteristics:

Model	SM150 (E,P)			SM250 (E,P)		SM700 (E,P)	
$Q_3 (m^3/h)$	2.5			4.0		4.0	
$Q_4 (m^3/h)$	3.125			5.0		5.0	
$Q_2/Q_1$	1.6			1.6		1.6	
$Q_1 (m^3/h)$	0.0156	0.0125	0.010	0.020	0.025	0.020	0.025
$Q_2 (m^3/h)$	0.025	0.020	0.016	0.032	0.040	0.032	0.040
$Q_3/Q_1$	160	200	250	200	160	200	160
Lenght (mm)	110			190		190	
thread	G ¾" B			G 1" B		1" or 11/4" NPSM	

Model	SM100 (E,P) or SM001 (E,P)				
$Q_3 (m^3/h)$	1.6				
$Q_4 (m^3/h)$	2.0				
$Q_2/Q_1$	1.6				
$Q_1$ (m $^3$ /h)	0.010	0.008	0.0064		
$Q_2$ (m $^3$ /h)	0.016	0.0128	0.01024		
$Q_3/Q_1$	160	200	250		
Lenght (mm)		110			
thread	G ¾" B				

Verification scale interval (m <sup>3</sup> )	Arbitrary		
Accuracy class	2		
Temperature class	T30		
Maximum admissible pressure (bar)	16		
Maximum admissible temperature (°C)	30		
Environmental class	B and C		
Electromagnetic environment	Residential, Commercial and Light industrial use		

### Installation details:

Connection type	Screw thread	
Minimum straight length of outlet pipe	0 mm	
Minimum straight length of inlet pipe	0 mm	
Flow conditioner	none	
Orientation limitations	none	