Physikalisch-Technische Bundesanstalt

Braunschweig und Berlin

Member State of OIML
Germany

OIML Certificate N°
R49/2003-DE1-06.01

OIML CERTIFICATE OF CONFORMITY

Issuing Authority

Name:	Physikalisch-Technische Bundesanstalt
Address:	Bundesallee 100, 38116 Braunschweig
Person responsible:	Dr. Gudrun Wendt

Applicant

Name:	Severn Trent Metering Services Ltd. Smeckley Wood Close
Address:	Chesterfield Trading Estate, S41 9PZ Chesterfield United Kingdom

Manufacturer of the certified type is the applicant.

Identification of the certified type	Water meter intended fort he metering of cold potable water Type: Smart Meter™, SM 150 and SM 250 Series
	Further characteristics see page 2

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 (2003): Metrological and technical requirements
R49-2 (2004): Test methods
R49-3 (2004): 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.

R3-000036

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The conformity was established by the results of tests and examinations provided in the associated Report No. PTB-1.5-4025664 (94 pages).

The Issuing Authority

Dr. Gudrun Wendt
Head of Department
Liquid Flow

15.09.2006

The CIML Member

Dr. Roman Schwartz
Head of Division
Mechanics and Acoustics

15.09.2006

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.

Identification of the certified pattern – page 1 continued

Metrology characteristics:

Model	**SM150**			**SM250**	
Nominal diameter DN (mm)	20			25	
Q_3 (m^3/h)	2.5			4.0	
Q_4 (m^3/h)	3.125			5.0	
Q_2/Q_1	1.6			1.6	
Q_1 (m^3/h)	0.0156	0.0125	0.010	0.020	0.025
Q_2 (m^3/h)	0.025	0.020	0.016	0.032	0.040
Q_3/Q_1	160	200	250	160	200
Lenght (mm)	110			190	
Connection type	Screw thread G ¾" B			Screw thread G 1" B	
Verification scale interval (m^3)	0.00001				
Flow conditioner	none				
Orientation limitations	none				
Accuracy Class	2				
Temperature Class	T30				
Maximum admissible pressure (bar)	16				
Minimum straight length of inlet/outlet pipe (mm)	0				
Environmental Class	B and C				
Electromagnetic environment	Residential, Commercial and Light industrial use				
Maximum admissible temperature (°C)	30				