Australian Government
National Measurement Institute

OIML Member State
Australia

OIML Certificate No.
R49-1/2006-AU1-09.01
(NMI Ref: R2008/175)

OIML CERTIFICATE OF CONFORMITY

Issuing Authority

Name: National Measurement Institute
Address: Bradfield Rd
Lindfield NSW 2070
Australia

Person responsible: Alex Winchester
Project Scientist

Applicant

Name: Sensus Metering Systems GmbH
Address: Industriestrasse 16
67063 Ludwigshafen
Germany

Manufacturer of the certified pattern is the Applicant (see above).

Identification of the certified pattern:

Sensus model 220C water meter.
A positive displacement, volumetric rotary piston water meter with a permanent flowrate Q_3 of 2.5 m^3/h intended for the metering cold, potable water. Further characteristics on page 3.

This Certificate attests the conformity of the above identified pattern (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):

R 49-1 (2006): Metrological and technical requirements
R 49-2 (2006): Test methods
R 49-3 (2006): Test report format
Accuracy class: 2

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

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R49-1/2006-AU1-09.01

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 Test Report CB170268, dated 27th July 2009, that includes 44 pages.

The Issuing Authority

Dr Amanda Rawlinson

Date: 26 August 2009

The CIML Member

Dr Grahame Harvey

Date: 26 August 2009

Characteristics of the Sensus model 220C water meter:

Q_3/Q_1 Ratio	200	160
Q_2/Q_1 Ratio	1.6	1.6
Q_1 Minimum flowrate (m^3/h)	0.0125	0.015
Q_2 Transitional flowrate (m^3/h)	0.02	0.025
Q_3 Permanent flowrate (m^3/h)	2.5	2.5
Q_4 Overload flowrate (m^3/h)	3.125	3.125

Measuring principle:	positive displacement, volumetric rotary piston
Accuracy class:	2
Environmental class:	C
Electromagnetic environment:	n/a
Maximum admissible temperature:	30°C
Limiting condition (water temperature):	50°C
Maximum admissible pressure:	1.6 MPa (16 bar)
Orientation requirements:	any

Connection type:	screw thread
Minimum straight length of inlet pipe:	0 mm
Minimum straight length of outlet pipe:	0 mm
Flow conditioner:	not required
Meter length:	≥ 115 mm
Thread:	G ¾ B
Indicating device:	Mechanical digital indicator having a series of eight aligned digits providing a maximum display of 9999.9999 m^3
Other relevant information:	Provision for the attachment of a supplementary device for data transmission