



Member State
Switzerland

OIML Certificate
No R49/2006-CH1-08.04

OIML CERTIFICATE OF CONFORMITY

Issuing authority

<i>Name</i>	Federal Office of Metrology METAS Certification Body METAS-Cert
<i>Address</i>	METAS, Lindenweg 50, CH-3003 Bern-Wabern
<i>Person responsible</i>	Jürg Ramseyer, Head of METAS-Cert

Applicant

<i>Name</i>	Landis + Gyr GmbH
<i>Address</i>	Humboldtstrasse 64, D – 90459 Nürnberg
<i>Manufacturer</i>	The manufacturer of the certified pattern is the Applicant

Identification of the certified pattern

	Ultrasonic water meter intended for the metering of cold water (T30).
<i>Type</i>	UW50

For further characteristics see page 3.

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):

R 49-1, edition 2006
for accuracy class 2

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.



**OIML Certificate
No R49/2006-CH1-08.04**

The conformity was established by the results of tests and examinations provided in the associated Test Reports:

No 135-10906 that includes 2 pages

The Issuing Authority

Jürg Ramseyer, Head of METAS-Cert

The OIML Member

Dr. Philippe Richard, Vice Director

CH-3003 Bern-Wabern, October 23, 2008

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 the associated Test Report is not permitted, although either may be reproduced in full.



OIML Certificate No R49/2006-CH1-08.04

1 Description of the type

Microprocessor controlled ultrasonic water meter intended for the metering of cold water in complete version or split version for the separate installation of the flow sensor and calculator on-site.

The determination of the flow rate is based on the principle of the entrainment of ultrasonic waves. The path of the waves is therefore continuously reflected and cyclic synchronized as the ultrasonic converter is acting alternately as transmitter and receiver. The runtime of the waves is determined in flow direction and against flow direction and the runtime difference allows the calculation of the flow rate which is displayed by means of the software controlled microprocessor on the indicating device.

2 Technical specifications

Q ₃	(m ³ /h)	2.5
Q ₄	(m ³ /h)	3.125
Q ₂ /Q ₁		1.6
Overall length	(mm)	190
Connection type		screw thread G 1" (DN20)
R (Q ₃ /Q ₁)		50
Mounting		H / V
Pressure loss class ΔP		63, pressure loss 200 mbar
Verification scale interval	(l)	0.01
Water pressure MAP	MPa	1.6
Temperature class		T30: 5.0 °C < T < 30 °C
Accuracy class (Q ₁ ≤ Q ≤ Q ₂) (Q ₂ ≤ Q ≤ Q ₄)		2 ± 5 % ± 2 %
Environmental classification		Class B, class M1 Temperature range (5 – 55) °C
Electromagnetic environment		Class E1
Flow disturbance class		U0/D0