

# Physikalisch-Technische Bundesanstalt

Braunschweig und Berlin

Member State of OIML  
Germany



OIML Certificate No.  
**R49/2006-DE1-12.01**

## OIML CERTIFICATE OF CONFORMITY

### Issuing Authority

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

### Applicant

Name: Zenner International GmbH & Co. KG  
Address: Römerstadt 4  
66121 Saarbrücken  
Germany

Manufacturer of the certified type is the applicant.

**Identification of the certified type** Water meter intended for the metering of cold potable water  
Rotating piston meter with mechanical register  
Type: RTKD-S

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):

R 49-1 (Edition 2006) Metrological and technical requirements  
R 49-2 (Edition 2006) Test methods  
R 49-3 (Edition 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.

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

No. RTKD-S Q3-2,5 165	that includes 37 pages
No. RTKD-S Q3-1,6 110 CC	that includes 37 pages
No. RTKD-S Q3-2,5 105	that includes 129 pages
No. RTKD-S Q3-1,6 105	that includes 47 pages
No. RTKD-S Q3-2,5 110 CC	that includes 38 pages
No. RTKD-S Q3-1,6 165	that includes 38 pages

## The Issuing Authority

Dr. G. Wendt  
Head of Department

30.01.2012

## The OIML Member

Dr. R. Schwartz  
Head of Division

30.01.2012

*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.

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Identification of the certified type - page 1 continued

Type details RTKD-S

Q <sub>3</sub>	m <sup>3</sup> /h	1,6	2,5
Q <sub>4</sub>	m <sup>3</sup> /h	2,0	3,125
Q <sub>2</sub> /Q <sub>1</sub>		1.6	
Body length	mm	≥ 105	
Nominal diameter	DN	≥ 15	
Connection type		screw thread ≥G 3/4 B	
Q <sub>1</sub> Orientation any	ℓ/h	20 / 16 / 12,8 / 10 / 8 / 6,4	50 / 39,7 / 31,3 / 25 / 20 / 15,6 / 12,5 / 10 / 7,9 / 6,3
Q <sub>2</sub> Orientation any	ℓ/h	32 / 25,6 / 20,5 / 16 / 12,8 / 10,2	80 / 63,5 / 50 / 40 / 32 / 25 / 20 / 16 / 12,7 / 10
Q <sub>3</sub> /Q <sub>1</sub> Orientation any		80 / 100 / 125 / 160 / 200 / 250	50 / 63 / 80 / 100 / 125 / 160 / 200 / 250 / 315 / 400
Pressure loss class	bar	ΔP 40	ΔP 63
verification scale interval	I	0,02	
Maximum admissible pressure	bar	MAP 16	
Maximum admissible temperature		50°C	
Accuracy class		± 2 % (Q <sub>2</sub> ≤ Q ≤ Q <sub>4</sub> ) Water temperature ≤ 30°C	
		± 3 % (Q <sub>2</sub> ≤ Q ≤ Q <sub>4</sub> ) Water temperature > 30°C	
		± 5 % (Q <sub>1</sub> ≤ Q ≤ Q <sub>2</sub> )	
Pressure range		0.3 bar bis 16 bar	
Environmental class:		B, C	
Climatic environment		5°C bis 55°C	
Electromagnetic environment		not applicable (n/a)	