

OIML Certificate of Conformity

OIML Member State The Netherlands			Number R49/2013-NL1-16.01 Project number 13200198 Page 1 of 3	
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lssuing authority Person responsible:	NMi Certin B.V. C. Oosterman			
Applicant and Manufacturer	Badger Meter Europa Nürtinger Straße 76 72639 Neuffen Germany	GmbH		
Identification of the certified type	An electromagnetic w Type: M5000	ater meter		
Characteristics	See page 2 and furthe	r + + + + + + + + + + + + + + + + + + +		
identified in the OIML	the conformity of the al Type Evaluation Report; e International Organiz) with the requirement		
		r meters intended for and hot water"	the metering of cold potable	
Accuracy class	1 and 2			
instrument covered by	only to the metrologica the relevant OIML Inter ot bestow any form of le	national Recommend		
OIML Member State in	which the Certificate w	as issued, partial quo	ice number and the name of the tation of the Certificate and of nough either may be reproduced	
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Issuing Authority	NMi Certin B.V., OIN 4 March 2016 C. Øosterman Head Certification Boa	· · · · · · · · · · · · · · · · · · ·	y NL1 + + + + + + + + + + + + + + + + + + +	
Hugo de Grootplein 1 3314 EG Dordrecht the Netherlands T +31 78 6332332provisio and that third-pu third-pu The no uswugnmi.nlwww.nmi.nlIssuing	cument is issued under the on that no liability is accepted at the applicant shall indemnify arty liability. tification of NMi Certin B.V. as Authority can be verified at iml.org	Parties concerned can lodge objection against this decision, within six weeks after the date of submission, to the general manager of NMi (see www.nmi.nl).	OIML INSPECTION RVA 122	



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	Its of tests and examinations provided in the associated													
eport(s): - No. NMi-13200198-01 dated 4 Marcl - No. 130601023 / M5000 dated 19 Fe Characteristics of the measuring instru	bruary 2016 that includes 55 pages. ment													
n Table 1 the general characteristics of the able 2 gives an overview of the general ch he construction of the measuring instrume able 1 General characteristics														
Measuring principle	Electromagnetic flow metering													
Accuracy class	1 and 2													
Environmental class	M1 / O (installed outdoors)													
Electromagnetic environment	E2 + + + + + + + + + + + + + + + + + + +													
Temperature range ambient	-25 °C / +55 °C													
Water temperature class	T50 (+0,1 °C / +50 °C)													
Maximum admissible pressure (MAP)	-1,6 MPa (16 bar)													
Orientation	All positions (Horizontal, vertical or diagonal)													
Flow profile sensitivity class	U0 and D0 (0 x DN upstream and 0 x DN downstream)													
Reverse flow	The sensor is not intended to measure reverse flow													
Pressure loss class + + + + + + +	Δp 10 (0,10 bar)													
Power supply	Replaceable battery (2,9 – 3,7 V)													
Software identification	Version number: 9.5.28 CRC Checksum OTP: bdFc CRC Checksum APP: 63b5													



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Table 2 General characteristics of the family of instruments with accuracy class 1

	Ø in- and		Ratio			
Meter size	outlet [mm]	Minimum Q1	Transitional Q2	Permanent Q3	Overload Q4	Q3/Q1
DN50	+ + 50 + +	+ 0,315 +	0,504 +	+ + 63 + +	+ 78,75+ +	+ + 200 +
DN65	65	0,5	0,8	100	125	200
DN80	80	0,8	1,28	160	200	200
DN100	+ +100 + +	+ + 1+ + -	+ 1,6 +	+ + 250+ +	+ -312,5+ +	+ + 250 +
+ DN125 +	+ +125 + +	+ +1,6 +	2,56	+ + 400 + +	+ + 500 + +	+ + 250 +
DN150	150	3,9375	6,3	630	787,5	160
DN200	200	6,25	10	1000	1250	160
DN250	+ +250 + +	+ +10 +	16 +	+ + 1600 +	+ 2000+ +	+ +160 +
DN300	300 + +	15,625	25	2500	3125	160

Table 3 General characteristics of the family of instruments with accuracy class 2

+		Ø in- and		Ratio			
+	Meter size	outlet [mm]	Minimum Q1	Transitional Q2	Permanent Q3	Overload Q4	Q3/Q1
+	DN150 +	+ +150 + +	+ 2,520 +	+ 4,032 +	+ + 630+ +	+ 787,5 +	+ +250 + +
+	DN200	200	4,000	6,400	1000	1250	250

Table 4 General characteristics of the indicating device

÷	÷	÷	+	÷	÷	+	÷	÷	+	+	+	÷	+	÷	+	\pm	÷	÷	÷	÷	÷	÷	÷	÷	÷	÷	+	÷	÷	+	+	+	
				Me	eter	· siz	e							In	dica	atin [m	-	ang	ge				,	Ver	ific	ati		sca n³]	le i	nte	erva	I	
D	N5	0	+	+	+	+	+	+	*	+	+	+	+	+	+9	99.9	999	+	+	+	+	-	+	+	+	+	0,0	001	1	+	+	+	
D	N6	5; C	DN8	30;	DN	100); D	N1	25	1	-	1	1	1	9	99.	999)	1	1	1		1	1	1	1	0,0	001	1	1	-	1	
D	N1	50	÷	+	+	+	÷	÷	+	+	+	÷	÷	+	9	99.	999)+	+	÷	+		÷	+	+	+	0,	01	+	+	+	+	
D	N2	00;	DN	125	0	+	+	+	+	+	+	+	+	+	9.	999	.99	9	+	+	+	-	+	+	+	+	0,	01	+	+	+	+	
D	N3	00	+	1	1	+	1	÷.	+	+	+	1	1	+	9.	999	.99	9	+	+	1	-	1	1		+	0	,1	1	+	+	+	