

OIML Member State The Netherlands		Number R137/2012-NL1-15.09 revision 1 Project number 15200787 Page 1 of 4
lssuing authority Person responsible:	NMi Certin B.V. C. Oosterman	
Applicant and Manufacturer	Emerson Process Man 11100 Brittmoore Parl 77041 Houston, Texas United States of Amer	k Drive
Manufacturers mark or name	Daniel Measurement	and Control, Inc.
Identification of the certified type	An ultrasonic Gas M 3414 / 3415 / 3416 / 34	117 Senior Sonich + + + + + + + + + + + + + + + + + + +
Characteristics	See page 2 and furthe	
 identified in the OIML 	Type Evaluation Report	bove identified type (represented by the sample(s)) with the requirements of the following zation of Legal Metrology (OIML): meters"
Accuracy class	0,5	
instrument covered by	the relevant OIML Inter	I and technical characteristics of the type of measuring rnational Recommendation identified above. egal international approval.
OIML Member State in	which the Certificate w	e Certificate's reference number and the name of the vas issued, partial quotation of the Certificate and of is not permitted, although either may be reproduced
Issuing Authority	NMi Certin B.V., OIN 4 March 2016 C. Oosterman Head Certification Bo	AL Issuing Authority NL1
Hugo de Grootplein 1 provisi 3314 EG Dordrecht and th the Netherlands third-p T +31 78 6332332 certin@nmi.nl www.nmi.nl Issuing	ocument 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 <u>binl.org</u>	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).



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	sults of tests and examinations provided in the associated
report(s):	
- No. NMi-15200787-01 dated 25 Fe	ebruary 2016 that includes 50 pages.
Characteristics of the measuring instr	rument + + + + + + + + + + + + + + + + + + +
	ne measuring instrument are presented. characteristics of the family of instruments. ment is recorded in the Documentation folder no. T10078-5.
Gas meter configuration	
<u>Model 3414</u>	• • • • • • • • • • • • • • • • • • • •
The model 3414 is equipped with 4 measu Model 3415	uring paths in a horizontal configuration.
The model 3415 contains of a model 3414	a path layout and electronics. The model 3415 is additionally
equipped with one check path which is co <u>Model 3416</u>	onnected to a separate set of electronics.
The model 3416 contains of a model 3414	a path layout and electronics. The model 3416 is additionally
equipped with one check path and one di electronics.	iagnostic path which are connected to a separate set of
<u>Vlodel 3417</u> + + + + + + + + + + +	
The model 3417 is composed of two mode	el 3414 electronics and transducers built into a model 3417
The model 3417 is composed of two mode pool piece. The meter can be used in the 1. Two separate gas n	following configurations:
The model 3417 is composed of two mode pool piece. The meter can be used in the	following configurations:
The model 3417 is composed of two mode pool piece. The meter can be used in the 1. Two separate gas n	following configurations:
The model 3417 is composed of two mode pool piece. The meter can be used in the 1. Two separate gas n 2. Pay / check configu	following configurations:
The model 3417 is composed of two mode pool piece. The meter can be used in the 1. Two separate gas n 2. Pay / check configu T able 1 General characteristics	e following configurations: meters uration
The model 3417 is composed of two mode pool piece. The meter can be used in the 1. Two separate gas n 2. Pay / check configu Table 1 General characteristics Destined for the measurement of	following configurations: meters uration Gas volume
The model 3417 is composed of two mode pool piece. The meter can be used in the 1. Two separate gas n 2. Pay / check configu Table 1 General characteristics Destined for the measurement of Environmental classes	e following configurations: meters uration Gas volume M2 / E2
The model 3417 is composed of two mode pool piece. The meter can be used in the 1. Two separate gas n 2. Pay / check configu Table 1 General characteristics Destined for the measurement of Environmental classes Accuracy class	e following configurations: meters uration Gas volume M2 / E2 Class 0,5
The model 3417 is composed of two mode pool piece. The meter can be used in the 1. Two separate gas n 2. Pay / check configu Table 1 General characteristics Destined for the measurement of Environmental classes Accuracy class Maximum pressure	e following configurations: meters uration Gas volume M2 / E2 Class 0,5 425 bar
The model 3417 is composed of two mode pool piece. The meter can be used in the 1. Two separate gas n 2. Pay / check configu Table 1 General characteristics Destined for the measurement of Environmental classes Accuracy class Maximum pressure Ambient temperature range	e following configurations: meters uration Gas volume M2 / E2 Class 0,5 425 bar -40°C / +55°C
The model 3417 is composed of two mode pool piece. The meter can be used in the 1. Two separate gas n 2. Pay / check configu Table 1 General characteristics Destined for the measurement of Environmental classes Accuracy class Maximum pressure Ambient temperature range Gas temperature range	e following configurations: meters uration Gas volume M2 / E2 Class 0,5 425 bar -40°C / +55°C -40°C / +55°C -40°C / +55°C
The model 3417 is composed of two mode pool piece. The meter can be used in the 1. Two separate gas m 2. Pay / check configu Table 1 General characteristics Destined for the measurement of Environmental classes Accuracy class Maximum pressure Ambient temperature range Gas temperature range Designed for	e following configurations: meters uration Gas volume M2 / E2 Class 0,5 425 bar -40°C / +55°C -40°C / +55°C Condensing humidity
The model 3417 is composed of two mode pool piece. The meter can be used in the 1. Two separate gas m 2. Pay / check configu Table 1 General characteristics Destined for the measurement of Environmental classes Accuracy class Maximum pressure Ambient temperature range Gas temperature range Designed for Orientation	e following configurations: meters uration Gas volume M2 / E2 Class 0,5 425 bar -40°C / +55°C -40°C / +55°C Condensing humidity All orientations
The model 3417 is composed of two mode pool piece. The meter can be used in the 1. Two separate gas m 2. Pay / check configu Table 1 General characteristics Destined for the measurement of Environmental classes Accuracy class Maximum pressure Ambient temperature range Gas temperature range Designed for Orientation Power supply voltage	e following configurations: meters uration Gas volume M2 / E2 Class 0,5 425 bar -40°C / +55°C -40°C / +55°C Condensing humidity All orientations 10,4 – 36 V DC Version number: 1.24
The model 3417 is composed of two mode pool piece. The meter can be used in the 1. Two separate gas m 2. Pay / check configu Table 1 General characteristics Destined for the measurement of Environmental classes Accuracy class Maximum pressure Ambient temperature range Gas temperature range Designed for Orientation Power supply voltage	e following configurations: meters uration Gas volume M2 / E2 Class 0,5 425 bar -40°C / +55°C -40°C / +55°C Condensing humidity All orientations 10,4 – 36 V DC Version number: 1.24
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Dia	meter+ + + + +	$+ + + V_{min}^{+} + +$	$+ + + V_t + + +$	$+ + + V_{max}^{+} + +$					
DN	Typical ranges			· + + + + + + + + + + + + + + + + + + +					
[mm]	+ + + [mm] + +	+ + [m/s] + +	+ + [m/s] + +	+ + [m/s] + +					
100 +	80 ~ 108		· + + + + + + ·	+ + + + +					
150	124 ~ 161		· · · · · · · · · ·	· • • • • • • •					
+200 + +	173 ~ 212			28					
250	216 ~ 265			· · · · · · · ·					
+ 300 + +	257 ~ 315								
350	284 ~ 343		* * * * * *	* * * * * *					
400	325 ~ 394		1/10 V _{max}	· • • • • • • •					
⁺ 450 ⁺ ⁺	367 ~ 445		+ + + + + + +	30,5					
500	408 ~ 495		· · · · · · · · ·	· + + + + + + + + + + + + + + + + + + +					
+ 600 + +	491 ~ 597								
750	730 ~ 749		* * * * * * *	26					
900 + +	876 ~ 899			23					
1050	1029 ~ 1048			21					
allation cond	itions:								
	ow straightener n one of the following	g configuration:							
10078/0-08	raightener followed b ; ollowed by a Daniel s								
see docume	ent 10078/0-09; ollowed by a CPA 50E	* * * * * * *							
the meter,	see document 10078/0	D-10;		orping at the inlet o					
	inlet of the meter, wi inlet of the meter, wh			ed in the next 10D.					



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* Certificate history:

Re	evis	sior	۱	D	at	ate D					Description of the modification																							
Ini	itia	alt	+	6	No	ove	mk	be	r 2	015	5		-+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	-
1	÷	÷	÷	4	М	arc	h 2	20.	16	÷	÷	+	Cla		0 5	and	чv	min		we	reo	to	0 5	m/	, +	+	÷	÷	÷	÷	+	÷	÷	4
	÷	÷	÷	+	1.41		11 2		-	÷	÷	-	-	-	+			+	+	-			0,5	+	+	÷	÷	+	÷	÷	-	÷	÷	-