



[I-21/366/2025-W&M Section]  
GOVERNMENT OF INDIA/भारत सरकार  
MINISTRY OF CONSUMER AFFAIRS, FOOD AND PUBLIC DISTRIBUTION  
उपभोक्ता मामले, खाद्य एवं सार्वजनिक वितरण मंत्रालय  
DEPARTMENT OF CONSUMER AFFAIRS/ उपभोक्ता मामले विभाग  
LEGAL METROLOGY DIVISION/ विधिक मापविज्ञान प्रभाग

Krishi Bhawan, New Delhi/कृषि भवन, नई दिल्ली

Dated/दिनांक:- 17.12.2025

Certificate of Approval of Model/ मॉडल का अनुमोदन प्रमाणपत्र

Whereas the Central Government, after considering the report submitted to it by prescribed authority, along with the OIML Certificate R137/2012-A-NL1-23.04 revision 3 issued by NMI Certin B.V, Thijssseweg 11, 2629 JA Delft, The Netherlands is satisfied that the model described in the said report (see the figure given below) is in conformity with the provisions of the Legal Metrology Act, 2009 (1 of 2010) and the Legal Metrology (Approval of Models) Rules, 2011 and the said model is likely to maintain its accuracy over periods of sustained use and to render accurate service under varied conditions;

Now, therefore, in exercise of the powers conferred by section 22 of the Legal Metrology Act, 2009 (1 of 2010) read with sub-rule (6) of rule 8 and sub-rule (4) of rule 11 of the Legal Metrology (Approval of Models) Rules, 2011, the Central Government hereby issues the certificate of approval of the model of a ultrasonic gas meter of type "USM-GT400" with brand name "RMG Messtechnik GmbH" (hereafter in this notification referred to as the said model) manufactured by M/s RMG Messtechnik GmbH, Otto-Hahn-Str.5, 35510 Butzbach, Germany and imported & marketed in India without any alteration before or after sale by M/s RMG Messtechnik Private Limited, 404-405, Sears Tower, Gotri-Sevasi Main Road, Vadodara, Gujarat, 391101 which is assigned the approval mark IND/09/25/ 537 (the picture of the model is given below as Figure 1);

Figure 1



**Technical Data:**

Accuracy Class	0.5
Gas Temperature Range	-40° C to +80°C
Ambient condition temperature	-40° C to +70°C
Designed for	Non-condensing humidity & condensing humidity



Orientation	Horizontal, vertical up and vertical down (all orientations)				
Power supply	19.2-26.4 V DC				
Software identification	Version		Checksum		
	1.523		1AB7		
	1.527		D031		
	1.529		30CF		
	1.531		3E24		
Communication output	RS-485/RS-232				
Transducers	Type	Frequency (kHz)	Pressure range (bar)	Admissible range of diameter	Beam angle (°)
	TNG 10-CP	120	0-150	DN200-DN900	circa 10
	TNG 10-CHP	120	0-300	DN200-DN900	
	TNG 20-LP	200	0-150	DN200-DN600	
	TNG 20-LHP	200	0-300	DN200-DN600	
	TNG 20-SP	200	0-150	DN80-DN150	
	TNG 20-SHP	200	0-300	DN80-DN150	

General characteristics of the family of instruments:

Standard (6 path)					
Diameter Nominal	Internal bore		Maximum	Minimum	
	Reduced bore meter (mm)	Full bore meter (mm)	Vmax (m/s)	Vt (m/s)	Vmin (m/s)
80 mm	73.7	77.9	42.32	2.60	0.33
100 mm	97.2	102.3	37.43	2.43	0.30
150 mm	146.4	154.1	41.25	2.64	0.33
200 mm	193.7	202.7	39.59	1.89	0.30
250 mm	242.8	254.4	39.60	1.50	0.30
300 mm	288.8	303.2	39.86	1.48	0.30
350 mm	317.5	333.3	40.00	1.58	0.32
400 mm	363.5	381	40.15	1.61	0.32
450 mm	409.6	428.7	37.95	1.58	0.32
500 mm	455.6	477.8	35.78	1.53	0.31
600 mm	547.7	574.6	35.37	1.53	0.31
650 mm	631.9	-	39.86	1.53	0.30
700 mm	679.5	-	39.83	1.53	0.32
750mm	730.3	-	39.79	1.53	0.31
800 mm	777.8	-	35.08	1.52	0.32
900 mm	876.3	-	27.63	1.52	0.32



For DN size 150mm and less

For DN size 200mm and above

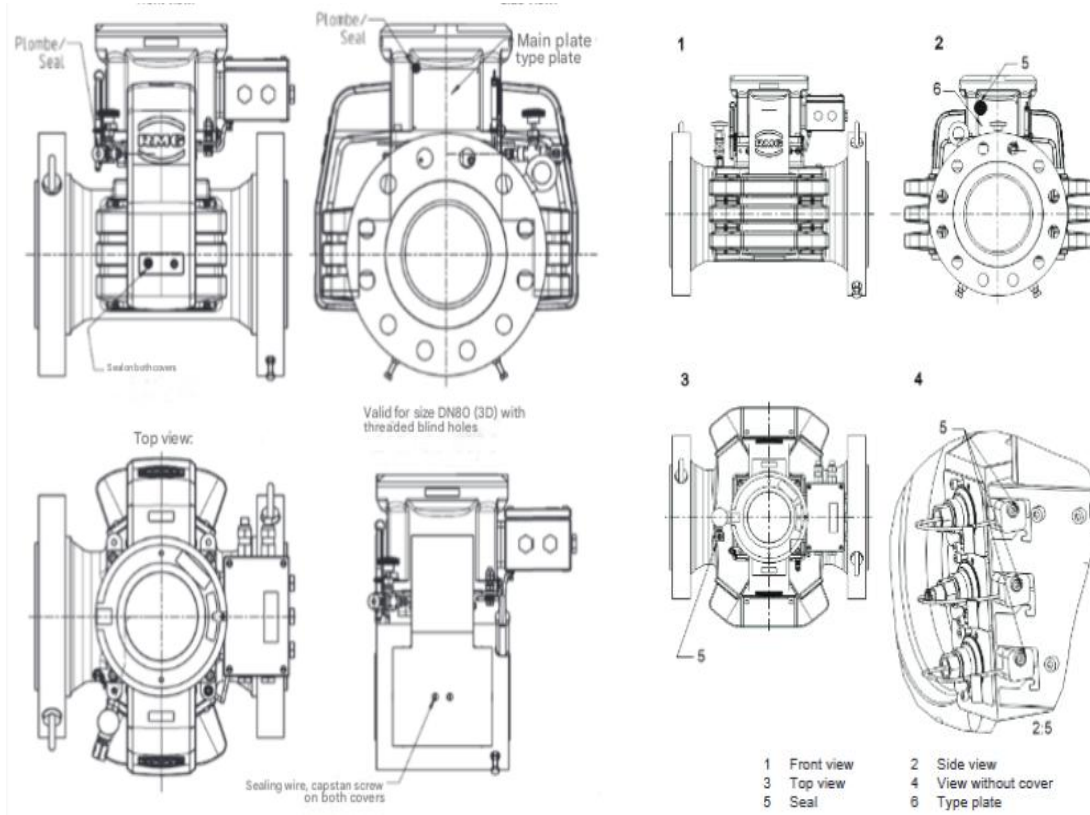


Figure 2

A typical schematic diagram of sealing provision to prevent the fraudulent practices of the model is given above as Figure 2

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(Ashutosh Agarwal/आशुतोष अग्रवाल)  
Director (Legal Metrology) to Govt. of India/ निदेशक (विधिक माप विज्ञान) भारत सरकार  
Phone/दूरभाष 01123389489  
Email/ई-मेल: [dirwm-ca@nic.in](mailto:dirwm-ca@nic.in)  
Online Application No. 23777