Gas Flow Meter MQM
with mechanical counter

DUNGS®
Combustion Controls

GAS FLOW METER MQM

Manufacturer / Owner
of EU-Type Examination Certificate
Metreg Technologies GmbH
Tränkeweg 9
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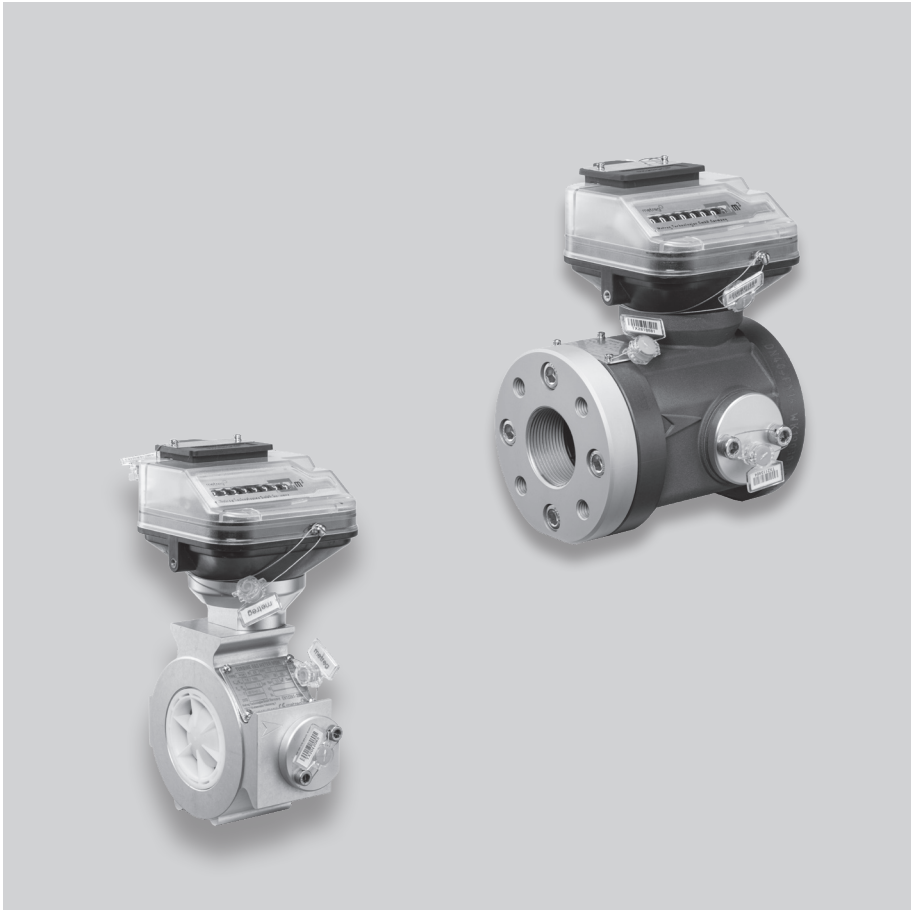

Technical description

The MQM Quantometer is a turbine wheel gas meter that registers the operating volume using a 8-digit mechanical counter.
The MQM is a volume flow meter. The flow of the measured gas causes the turbine wheel to rotate.
Via pulses the operating volume can be transferred to an electronic volume corrector and converted to normal or standard conditions.

Threaded connection
Rp 1 & Rp 1 ½, acc. ISO 7/1:
max. operating pressure 4 bar
Flanged connection
DN 25 to DN 150, acc. DIN EN 1092-1:
max. operating pressure 16 bar.

Application

The MQM is for operational gas-volume measurement and is suitable for gases of families 1, 2, 3 and other neutral gaseous media. MQM is not an offical calibrated counter. It is used for internal controlling processes, most suitable for industrial thermoprocessing facilities.

Approvals

EU type testing certificate as per:
• EU-Pressure Equipment Directive

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Specification	
Meter size	G10 to G1000
Flow rates	16 to 1600 m^3/h
Nominal sizes	DN 25 (Rp1) to DN 150 (Rp 6)
Max. operating pressure	Threaded version: 4 bar Flanged version: 16 bar
Measuring ratio	Rp 1 to DN 25: 1:10 DN 50 to DN 150: 1:20
Ambient temperature	-20 °C to + 55 °C
Degree of protection	IP 65
Materials • Housing • Disyplay unit • Turbine wheel	 Aluminium alloy Polymer material Aluminium alloy
Installation position	Horizontal, vertical
Connections	Pressure: 1x NPT ¼ thread Temperature: 1x thermowell with G ¼
Recommended calming section	inlet ≥ 3x DN outlet ≥ 2x DN
Special features	Counter rotatable (355°) Maintenance free based on permanent lubrication of ball bearings

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Following basis versions are available:

Article designation	Order no.	Size (inlet/ outlet)	G-Type	Length (mm)	Max. operation pressure	Measurement range min (Bm^3/h)	Measurement range max (Bm^3/h)	Pulse genera-tor
MQM Rp 1 (1.6-16)	292732	Rp 1	10	185	4 bar	1.6	16	
MQM Rp 1 (2.5-25)	292733	Rp 1	16	185	4 bar	2.5	25	
MQM Rp 1 (4.0-40)	292734	Rp 1	25	185	4 bar	4.0	40	
MQM Rp 1 (6.5-65)	292735	Rp 1	40	185	4 bar	6.5	65	
MQM Rp 1½ (6.5-65)	292736	Rp 1½	40	210	4 bar	6.5	65	
MQM DN 25 (1.6-16)	292737	DN 25	10	150	16 bar	1.6	16	
MQM DN 25 (2.5-25)	292738	DN 25	16	150	16 bar	2.5	25	
MQM DN 25 (4.0-40)	292739	DN 25	25	150	16 bar	4.0	40	
MQM DN 25 (6.5-65)	292740	DN 25	40	150	16 bar	6.5	65	
MQM DN 50 (3.25-65)	292741	DN 50	40	60	16 bar	3.25	65	LF
MQM DN 50 (5.0-100)	292742	DN 50	65	60	16 bar	5.0	100	
MQM DN 80 (8.0-160)	292743	DN 80	100	120	16 bar	8.0	160	
MQM DN 80 (12.5-250)	292770	DN 80	160	120	16 bar	12.5	250	
MQM DN 80 (20-400)	291879	DN 80	250	120	16 bar	20.0	400	
MQM DN 100 (12.5-250)	292744	DN 100	160	150	16 bar	12.5	250	
MQM DN 100 (20-400)	292745	DN 100	250	150	16 bar	20.0	400	
MQM DN 100 (32-650)	292746	DN 100	400	150	16 bar	32.0	650	
MQM DN 150 (32-650)	292747	DN 150	400	180	16 bar	32.0	650	
MQM DN 150 (50-1000)	292748	DN 150	650	180	16 bar	50.0	1 000	
MQM DN 150 (80-1600)	292749	DN 150	1000	180	16 bar	80.0	1 600	

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Following options are available*

Option	Additional feature	Explanation
Option 1	HF 1 pulse generator	Higher frequency of measuring, allows the determination of the actual gas flow in high resolution
Option 2	Oil pump	For additional, manual lubrication at biogas applications
Option 3	3.1 approval material batch	Confirms the technically specified parameters for the specific batch
Option 4	Thermowell	for mounting of temperature sensor

* each option can be included independent from another

Technical Information based on:
Revision: Product information 04.2020
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