

TURBINE METERS SERIES ETTM

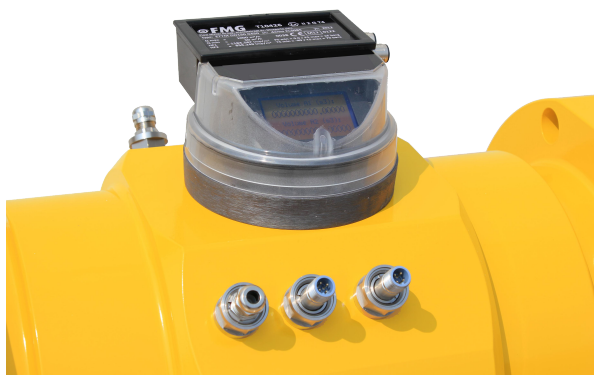
✓ TWIN TURBINE METER
✓ AUTO DIAGNOSTICS



- ✓ DN150 – DN300 (6" - 12")
- ✓ PN16 – PN100, ANSI150 – ANSI600
- ✓ 20 – 6500 m³/h (135 – 230,000 acfh)
- ✓ EXCHANGEABLE CARTRIDGE
- ✓ OIML, MID, PED, ATEX APPROVED

- ✓ TWO METERS IN ONE 3xD BODY
- ✓ CONTINUES MONITORING
- ✓ AUTO DIAGNOSTICS / ALARMS
- ✓ REMOTE INDEX (SFC3000)
- ✓ ELECTRONIC DOUBLE INDEX

The FMG series of Electronic Twin Turbine meters is the most accurate and advanced turbine meter ever developed. The functional and quality level reaches that of the serial comparison of two separate turbine meters as is in use at high pressure border stations throughout Europe. By a continuous comparison of the two - fully independent - turbine wheels, the smallest deviation can be monitored. A remote index (SFC3000 Flow Computer), controls the performance during the life time of the meter and will inform the parties involved of the metrological status. The SFC3000 will also directly correct the reading for all measurement errors.



The Electronic Twin Turbine can also be equipped with a battery powered electronic index showing the reading of both wheels (both wheels can be used for billing purposes). The counter system of this electronic index does not need to be powered and as such has infinite life time.





Technical Data	imperial	T27	T35	T60	T35	T60	T90
	metric	G400	G650	G1000	G650	G1000	G1600
Nominal Pipe Size	in.	6	6	6	8	8	8
	mm	150	150	150	200	200	200
Base Rating (Qmax)	acfh	27000	35000	60000	35000	60000	90000
	m³/h	650	1000	1600	1000	1600	2500
Rangeability atmospheric air	ratio	20	20	20	20	20	20
Rangeability >8 bar natural gas	ratio	30	30	30	30	30	30
Rangeability >16 bar natural gas	ratio	50	50	50	50	50	50
Accuracy Qmin to 20% Qmax	%	better than 2% (typical better than 1%)					
Accuracy 20% Qmax to Qmax	%	better than 1% (typical better than 0,5%)					
Accuracy Qmin to Qmax (after linearisation)	%	better than 0,15%					
Repeatability	%	better than 0,1%					
Temperature Range	deg.F	+14 to + 131 (-13 to +131 on request)					
	deg.C	-10 to + 55 (-25 to +55 on request)					
Average Differential @	in. w.c.	2,0	3,1	5,5	2,0	3,1	5,5
100% Flow Natural Gas 1barg	kPa	500	800	1400	500	800	1400
Flange-to-Flange	in.	17-3/4	17-3/4	17-3/4	23-5/8	23-5/8	23-5/8
	mm	450	450	450	600	600	600
Flange Connection	ANSI	150#RF, 300#RF,600#RF					
	DIN	PN10, PN16, PN25, PN40, PN64, PN100					
Net Weight Steel ANSI150, PN16	lbs.	110	110	110	183	183	183
	kg	50	50	50	83	83	83
Net Weight Steel ANSI300, PN25/40	lbs.	176	176	176	240	240	240
	kg	80	80	80	109	109	109
Net Weight Steel ANSI600, PN64/100	lbs.	198	198	198	310	310	310
	kg	90	90	90	141	141	141

Technical Data	imperial	T60	T90	T140	T90	T140	T230
	metric	G1000	G1600	G2500	G1600	G2500	G4000
Nominal Pipe Size	in.	10	10	10	12	12	12
	mm	250	250	250	300	300	300
Base Rating (Qmax)	acfh	60000	90000	140000	90000	140000	230000
	m³/h	1600	2500	4000	2500	4000	6500
Rangeability atmospheric air	ratio	20	20	20	20	20	20
Rangeability >8 bar natural gas	ratio	30	30	30	30	30	30
Rangeability >16 bar natural gas	ratio	50	50	50	50	50	50
Accuracy Qmin to 20% Qmax	%	better than 2% (typical better than 1%)					
Accuracy 20% Qmax to Qmax	%	better than 1% (typical better than 0,5%)					
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	deg.C	-10 to + 55 (-25 to +55 on request)					
Average Differential @	in. w.c.	2,0	3,1	5,5	2,0	3,1	5,5
100% Flow Natural Gas 1barg	kPa	500	800	1400	500	800	1400
Flange-to-Flange	in.	29-1/2	29-1/2	29-1/2	35-7/16	35-7/16	35-7/16
	mm	750	750	750	900	900	900
Flange Connection	ANSI	150#RF, 300#RF,600#RF					
	DIN	PN10, PN16, PN25, PN40, PN64, PN100					
Net Weight Steel ANSI150, PN16	lbs.	312	312	312	469	469	469
	kg	142	142	142	213	213	213
Net Weight Steel ANSI300, PN25/40	lbs.	394	394	394	576	576	576
	kg	179	179	179	262	262	262
Net Weight Steel ANSI600, PN64/100	lbs.	506	506	506	706	706	706
	kg	230	230	230	321	321	321