

# TURBINE METER SERIES FMT-S

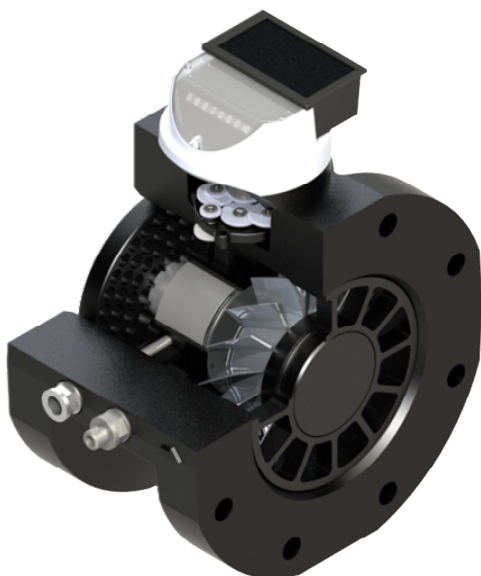
✓ MID APPROVED



- ✓ DN80 – DN300 (3" - 12")
- ✓ PN16 – PN100, ANSI150 – ANSI600
- ✓ 8 – 6500 m<sup>3</sup>/h (300 – 230,000 acfh)
- ✓ EXCHANGEABLE CARTRIDGE
- ✓ OIML, MID, PED, ATEX APPROVED
- ✓ FOR CUSTODY TRANSFER
- ✓ < 1xD STRAIGHT INLET (approved)
- ✓ SHORT METER BODY

The FMT-S series of short body turbine meters (or Quanto Meters) are designed for secondary measurement, industrial applications and custody transfer metering. By positioning the turbine wheel in the back of the meter, a full length flow conditioner could be integrated in the meter and as such the short body turbine meter type FMT-S performs at the same level as the traditional 3 x D length turbine meter. With the newly designed flow conditioner, the minimum straight length upstream according to the OIML low and high level perturbations, is even less than 1 x D.

OPTIONS: ENCODER / INTEGRATED THERMO WELL / HIGH AND LOW FREQUENCY OUTPUTS / OILPUMP / TOTALLY SEALED / MAGNETIC FIELD PROTECTION





Technical Data	imperial metric	T6 G100	T9 G160	T18 G250	T9 G160	T18 G250	T27 G400	T27 G400	T35 G650	T60 G1000
Nominal Pipe Size	in. mm	3 80	3 80	3 80	4 100	4 100	4 100	6 150	6 150	6 150
Base Rating (Qmax)	acfh m³/h	6000 160	9000 250	18000 400	9000 250	18000 400	27000 650	27000 650	35000 1000	60000 1600
Rangeability atmospheric air	ratio	20	20	20	20	20	20	20	20	20
Rangeability >8 bar natural gas	ratio	30	30	30	30	30	30	30	30	30
Rangeability >16 bar natural gas	ratio	50	50	50	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%)								
Repeatability	%	better than 0,1%								
Temperature Range	deg.F deg.C	aluminum -13 to +131, Steel +14 to + 131 (-13 to +131 on request) aluminum -25 to +55, Steel -10 to + 55 (-25 to +55 on request)								
Average Differential @ 100% Flow Natural Gas 1barg	in. w.c. kPa	2,8 700	4,3 1100	6,7 1700	2,0 500	2,8 700	5,7 1450	2,0 500	2,8 700	5,5 1400
Drive Rate Index, ID	cf/rev m³/rev	10 1	10 1	10 1	100 1	100 1	100 1	100 1	100 1	100 1 or 10
Flange-to-Flange	in. mm	4-3/4 120	4-3/4 120	4-3/4 120	5-7/8 150	5-7/8 150	5-7/8 150	6-7/8 175	6-7/8 175	6-7/8 175
Flange Connection	ANSI DIN	150#FF (aluminum), 150#RF, 300#RF, 600#RF PN16 (aluminum), PN16, PN25, PN40, PN64, PN100								
Net Weight Aluminum	lbs. kg	33 15	33 15	33 15	42 19	42 19	42 19	53 24	53 24	53 24
Net Weight Steel ANSI150, PN16	lbs. kg	50 23	50 23	50 23	63 29	63 29	63 29	79 36	79 36	79 36
Net Weight Steel ANSI300, PN25/40	lbs. kg	59 27	59 27	59 27	75 34	75 34	75 34	95 43	95 43	95 43
Net Weight Steel ANSI600, PN64/100	lbs. kg	65 30	65 30	65 30	83 38	83 38	83 38	105 48	105 48	105 48

Technical Data	imperial metric	T35 G650	T60 G1000	T90 G1600	T60 G1000	T90 G1600	T140 G2500	T90 G1600	T140 G2500	T230 G4000
Nominal Pipe Size	in. mm	8 200	8 200	8 200	10 250	10 250	10 250	12 300	12 300	12 300
Base Rating (Qmax)	acfh m³/h	35000 1000	60000 1600	90000 2500	60000 1600	90000 2500	140000 4000	90000 2500	140000 4000	230000 6500
Rangeability atmospheric air	ratio	20	20	20	20	20	20	20	20	20
Rangeability >8 bar natural gas	ratio	30	30	30	30	30	30	30	30	30
Rangeability >16 bar natural gas	ratio	50	50	50	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%)								
Repeatability	%	better than 0,1%								
Temperature Range	deg.F deg.C	aluminum -13 to +131, Steel +14 to + 131 (-13 to +131 on request) aluminum -25 to +55, Steel -10 to + 55 (-25 to +55 on request)								
Average Differential @ 100% Flow Natural Gas 1barg	in. w.c. kPa	3,1 800	4,7 1200	6,7 1700	2,4 600	3,5 900	6,3 1600	2,4 600	3,9 1000	6,3 1600
Drive Rate Index, ID	cf/rev m³/rev	100 1 or 10	100 10	1000 10	1000 10	1000 10	1000 10	1000 10	1000 10	1000 10
Flange-to-Flange	in. mm	8 200	8 200	8 200	10 250	10 250	10 250	12 300	12 300	12 300
Flange Connection	ANSI DIN	150#FF (aluminum), 150#RF, 300#RF, 600#RF PN16 (aluminum), PN16, PN25, PN40, PN64, PN100								
Net Weight Steel ANSI150, PN16	lbs. kg	218 99	218 99	218 99	198 90	198 90	198 90	310 141	310 141	310 141
Net Weight Steel ANSI300, PN25/40	lbs. kg	282 128	282 128	282 128	284 129	284 129	284 129	418 190	418 190	418 190
Net Weight Steel ANSI600, PN64/100	lbs. kg	339 154	339 154	339 154	392 178	392 178	392 178	521 237	521 237	521 237