

TF-Series Small Capacity Electronic Flowmeter

Trimec-FP TF-Series Small Capacity Electronic Flowmeters

Volumetric flow measurement of clean liquids or low flows used in automotive, aviation, mining, power, chemical, pharmaceutical, food, paint, petroleum industries and environmental applications. For metering additives for fuel, consumer products, water treatment and flotation cells, corrosion inhibitors, catalysts, emulsifiers, oils, grease, fragrances, adhesives, solvents, ink and insecticides.

Features / Benefits

- High accuracy and repeatability, direct volumetric reading
- No requirement for flow conditioning (straight pipe runs)
- Stainless Steel rotors (Optional PPS Rotor for TF008 meter)
- · Measures high and low viscosity liquids
- Quadrature pulse output option and bi-directional flow
- Only two moving parts



General Specifications

- Flow Rates: 1 550 L/hr [0.26 145 USG/hr] *
- Sizes: 1/8" 318" [4mm 8mm]
- Materials: Aluminium, 316 Stainless steel
 - * see also Medium and Large Capacity data sheets for other sizes

Meter Selection

- Aluminium meters for petroleum products (oils and grease, fuels and fuel oils)
- Stainless steel meters for the chemical, cosmetic, food and pharmaceutical industries (water based liquids)
- Blind pulse meters available with reed switch and Hall Effect outputs.
 Optional Quadrature pulse and Integral 4-20mA outputs available



Integral Instruments

Options include integral LCD totalisers, flow rate totalisers and batch controllers (4-20mA, scaled pulse, alarms and batch control)

- BT LCD 5-digit reset, 8-digit cumulative totaliser
- RT14 LCD 8-digit reset, cumulative totaliser, analogue and pulse outputs with backlit display
- RT 40 LCD 6-digit reset, cumulative totaliser and flow rate. Backlit Display
- EB LCD 6-digit 2 stage batcher and cumulative totaliser (Available for remote mounting and with l.S. approvals)



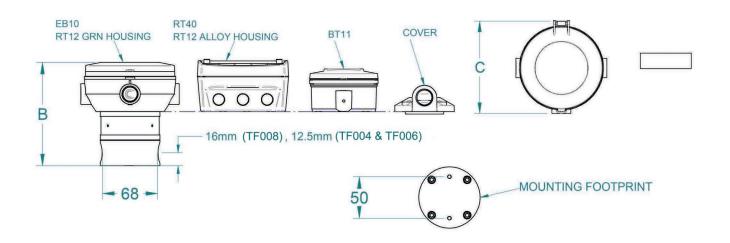


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Model Specifications

Model	TF004	TF006	TF008					
Nominal Size	4mm (1/8")	6mm (1/4")	8mm (3/8")					
* Nominal Flow range @ 3cP	1 - 36 L/hr	2 - 100 L/hr	15 -550 L/hr					
Norminal Flow range @ 3cr	(0.26 - 9.5 USG /hr)	(4 - 145 USG/hr)						
Accuracy	± 1% of reading (±	0.2% of reading with option	onal RT12 /RT14)					
Repeatability	Т	ypically ± 0.03% of readin	g					
Ambient Temperature Range	-40°	C to +120°C (-40°F to +25	0°F)					
Max. Pressure (AL meters)		15 Bar (220 psi)						
Max. Pressure (SS meters)	34 Bar (495 psi)							
Protection Class IP66/67 (NEMA4XI, Integral ancillaries can be supplied intrinsically saf								
Recommended Filtration	200 mesh (75 microns)							
Output Pulse Resolution - Pulses per Litre (Pulses per USG) - Nominal								
Reed Switch	2800 (10600)	1050 (3975)	355 (1345)					
Hall Efect	2800 (10600)	1050 (3975)	710 (2690)					
QP (Qudarture) Hall Effect	2800 (10600)	1050 (3975)	710 (2690)					
HR (High Resolution) Hall Effect	11200 (42400)	4200 (15900)	n/a					
Reed Switch Output	30Vdc x 200mA max. (maximum thermal shock 10°C [18°F]/ minute)							
Hall Effect Output	3 wire open collector, 5 - 24 Vdc max, 20mA max							
Optional Outputs	4-20mA, Scaled pulse, Quadrature pulse, flow alarms or two stage batch control							

^{*} Maximum flow reduces as viscosity increases, see flow de-rating guide. Max recommended pressure drop 1 Bar (14.5 psi)



Dimensions (± 2mm)

		С		
Option	TF004	TF006	TF008	
EB10 / RT12 / RT14 GRN housing	122	122	129	124
RT40	125	125	132	96
BT11	113	113	120	94
Cover	92	92	99	72





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Model Specifications

TF004	4mm	(1/8"	1 - 36 L/h	r (0.2	6 - 9.5 USG/hr)					
TF006 6mm (1/4") 2 - 100 L/h					(0.5 - 27 USG/hr)					
TF008 8mm (3/8") 15 - 550 L/hr (4 - 145 USG/hr)										
0	Body Material									
A Aluminium										
	S 316 Stainless Steel									
	Rotor Material / Bearing type									
	0				able for 150°C meters) / No bearing					
	5	1 Stair	nless steel / Car	bon o	ceramic					
	7			steel	(for high viscosity liquids) (008 only) / Carbon Ceramic					
			ng Material							
		1		_	F])Viton (-15°C min[-5°F])					
		3	Teflon Encaps							
		4	Nitrile (-40°C [-							
			Temperature I							
		70			max.120°C [250°C] max.					
		-			max. (Hall only) (includes SS terminal cover)150°C [300°F] max.					
					max. (includes cooling fin)*120°C [250°F] max. (includes cooling fin)					
		*		_	max. (meters with integral instruments, TF008 with PPS rotors)					
			Process							
					female threaded					
				_	ale threaded					
					ntry manifold mount (SS body only)					
					tries					
Exclusiv	e to B2 &	B3 Option	_		- 6 mm cable gland or no cable entry					
				_	20 x 1.5mm (M16 x 1.5 for R4 option)					
2 1/2"N										
In					egral Options					
				-	NIL					
				-	S Stainless Steel Terminal Cover					
					REED Switch Only - to suitt Intrinsically Safe Installations					
T5004 44000 T5000 4000					Qudrature pulse (2 NPN phased outputs)					
TF004 - 11200ppl, TF006 - 4200ppl			ZUUPPI		High resolution Hall effect output (Hall Effect only) (TF004 & TF006 only)					
With scaleable pulse output					*# BT11 totaliser with pulse output					
IECEx & ATEX approved			len A	-	*# BT11 intrinsically safe totaliser with pulse output					
Scaled pulse, alarms, & 4-20mA			MIA.	R2						
IECEx & ATEX approved				R3	*# RT12 intrinsically safe rate totaliser with all outputs (GRN housing)					
Scaled pulse, backlighting			1005201	R4	*# RT40 backlit rate totaliser (alloy housing with facia protector)					
Scaled pulse, alarms, 4-20mA & backlighting			A &	R5	*# RT14 backlit rate totaliser with all outputs (GRN housing)					
2 stage DC batcher & totaliser			er	E0	*# EB10 batch controller					
* Tempe	erature co	de 5 requir	ed when operat	ing te	emperature is between 80°C (180°F) and 120°C (250°F)					
# Tempe	erature co	de 8 requir	ed for all integra	al inst	truments.					

[#] Temperature code 8 required for all integral instruments.

Model No. Example										
TF008	S	5	1	1	-	8	1	1	R2	

