### TRIMEC

Trimec Micropulse Range of positive displacement flowmeters offer a high level of accuracy and repeatability. These precision meters are used for flowrate measurement in flow monitoring and control applications and for totalizing in dispensing and batching. Micropulse meters are suitable for use with a wide range of clean liquids including viscous lubricants, chemicals, food bases and non-conductive low viscosity solvents either pumped or gravity fed.

#### **Features / Benefits**

- High accuracy & repeatability, direct reading flowmeter
- No requirement for flow conditioning (straight pipe runs etc)
- Stainless steel rotors (Optional PPS Rotor for MG008 Size) •
- Measures high & low viscosity liquids
- Quadrature pulse output option & bi-directional flow •
- Integral 4-20mA output option .
- Optional Exd I/IIB approval (ATEX, IECEx) •
- PF option available for metering pulsating flows

#### **Meter selection**

Meters are selected based on flow range, pressure, temperature, material compatibility and functionality.

- Aluminium Micropulse meters are ideal for petroleum products including oils and grease, fuels and fuel oils.
- Stainless steel meters are suited for chemicals, water based products and the food, cosmetic and pharmaceutical industries.
- *Micropulse* meters are available as blind meters with pulse output or with integral or remote totalisers, flow rate displays or preset batch controllers.
- **Pulse meter** outputs can be interfaced to most electronic displays or instrumentation. Quadrature pulse & Integral 4-20mA outputs are optional.

#### Integral instruments

Trimec meter options include integral LCD totalisers, flow rate totalisers & batch controllers. These instruments provide monitoring & control outputs including 4~20mA, scaled pulse, alarms & batch control:

- BT LCD 5 digit reset, 8 digit cumulative totaliser.
- RT12 LCD 6 digit reset, cumulative totaliser, flow rate & analog . and pulse Outputs
- RT40 LCD 6 digit reset, cumulative totaliser & flow rate. Backlit Display
- EB LCD 6 digit 2 stage batcher & cumulative totaliser.

(Instruments also available for remote mounting and with I.S. approvals)

#### **General Specification**

Flow rates : 0.5 ~ 550 litres / hr. (0.16~ 145 USgal/hr.) \* : 4~8mm (1/8"~3/8" NB ) Sizes Materials : Aluminium, 316 Stainless steel



pulse meter



Integral rate totaliser

# TRIMEC

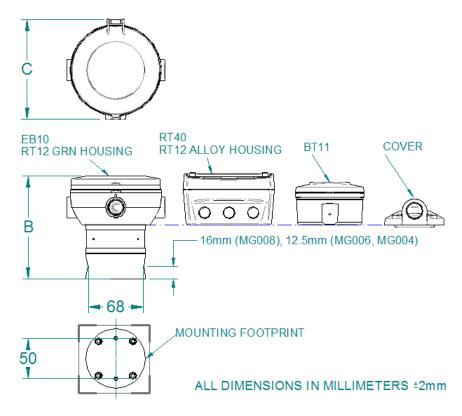
#### Specifications

Model Prefix:	MG004 (1/8")	MG006 (1/4")	MG008 (3/8")			
Nominal size (inches):	4mm (1/8")	6mm (1/4")	8mm (3/8")			
*Flow range - (LPH)	(0.5 ~ 36)	(2~100)	(15~550)			
'- (GPH)	(0.13~9.5)	(0.5~27)	(4~145)			
**Accuracy @ 3cp	± 1% of reading ( accuracy is ± 0.2% of reading with optional RT12 with non-linearity correction )					
Repeatability	typically ± 0.03% of reading					
Temperature range	-20°C ~ +120°C (-4°F ~ +250°F ), refer factory for lower temperature					
Maximum pressure	(Threaded meters)bar (PSI)					
aluminium meters	15 (220)					
316 stainless steel	34 (495)					
Intermediate press. SS meter	100 (1450)	100 (1450)	100 (1450)			
high pressure models	400 (5800)	400 (5800)	400 (5800)			
Electrical - for pulse meters (	see below for optional outputs )					
Output pulse resolution	pulses / litre (pulses / US gallon) - nominal					
Reed switch	2800 (10600)	1050 <i>(</i> 3975)	355 (1345)			
Hall effect	2800 (10600)	1050 (3975)	710 (2690)			
QP-Quadrature Hall option	2800 (10600)	1050 (3975)	710 (2690)			
PF-Pulsating Flow (Hall Effect)	2800 (10600)	1050 (3975)	178 (675)			
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 (NPN)	3 wire open collector, 5~24Vdc max., 20mA max.					
Optional outputs	4~20mA, scaled pulse, quadrature pulse, flow alarms or two stage batch control					
Physical						
Protection class	IP66/67 (NEMA4X), optional Exd I / IIB T4/T6, integral ancillaries can be supplied I.S. ( intrinsically safe )					
Overall dimensions	Refer Below					
Recommended filtration	75 microns (200 mesh)					
<ul> <li>Maximum flow is to be reduce</li> </ul>	ed as viscosity increases, see flow	de-rating guide. Max. recommande	d pressure drop is 100Kpa. (14.5 psi).			
** QP & PF Options are not avai	lable with High Pressure Meters					

\*\* QP & PF Options are not available with High Pressure Meters

#### \* see also maxipulse & multipulse gear data sheets for other size meters

### **Over all Dimensions**



	В	В	В	С
CONFIGURATION	MG004	MG006	MG008	
EB10/RT12 GRN HOUSING	122	122	129	124
RT40/ RT12 ALLOY HOSUING	125	125	132	96
BT11	113	113	120	94
COVER	92	92	99	72

## TRIMEC

### Model Coding-

	Meter Size MG004 4mm (1/8")	0.5-36	L/hr	0.13-9.5 GPH			
	MG006 6mm (1/4")	2-100		0.5-27 GPH			
	MG008 8mm (-3/8")	15-550	0 L/hr	4-145 GPH			
	Body material           A         Aluminum						
	A Aluminum S 316 stainless steel						
	<ul> <li>S to stainless aless</li> <li>N Intermediate press. 316 SS meter (MG004N ~ MG008N = 100bar max.)</li> </ul>						
		H High pressure 316 SS (MG004H ~ MG008H = 400bar [5800psi] max.)					
	Rotor material						
	0 PPS*-Teflon Filled (Polypl	nenylene Sulfide	)* Only available with	MG008 size			
000	5 Stainless steel (all standa						
0 🗢 0	7 Keishi cutting of stainless	steel rotors ( for	high viscosity liquids	) (Only available with 008 size)			
Preset	Bearing type						
Batcher Rate	0 No Bearing-PPS ro 1 Carbon-Ceramic (		store only)				
Totaliser	O-ring mat		nors orny)				
Totalisei		ndard ) -15°C (5°	F) minimum				
			r (EPR); -40-+120%				
			application specific	-15°C minimum			
			PC(-40~+212°F)				
		nperature limits 0°C (250°F) - s					
				t only ); O-Ring code 1 or 3			
A man	- 5 *12	0 °C (250°F) ma	x. (Includes integral o	cooling fin) see note 2			
	- 8 *80		. (For OM008 with PF	PS rotors)			
	1	Process col BSP female	CP4 50211 10775				
	2						
		Cable	entries				
Batch	with B2/B3 option		m cable gland				
Totaliser			c 1.5mm				
		2 1/2" N	Integral options				
			Nil				
			Stainless Steel Terr	ninal Cover			
				o suit Intrinsically safe installations (I.S)			
	Not available with high press models	QP		2 NPN Phased outputs)			
	IECEX & ATEX approved IECEX & ATEX mines approved	E1 E2		xd IIB T4/T6 (Aluminium & stainless meters) xd I/IIB T4/T6 (stainless meters only)			
	IECEX & ATEX approved	01		pulse (not available with high press. meter)			
	OM004: 11200ppL, OM006: 4200ppL			effect output (Hall Effect only for MG004 & 008			
	IECEX & ATEX approved			Hall Option.(MG004 and OM006 only)			
TRIMAL	for injected combustion engines IECEX & ATEX approved			(hall effect output only)			
	with scaleable pulse output	P1 B2	Exd with PF pulsating BT11 dual totaliser v				
	IECEX & ATEX approved	B3	Intrinsically safe BT:				
	Scaled pulse, alarm, 4 ~ 20mA	R0		aliser with all outputs (Alloy housing)			
	Scaled pulse, alarm, 4 ~ 20mA			aliser with all outputs (GRN housing)			
	IECEX & ATEX approved	R3	the second se	12 ( I.S. )(GRN housing)			
	Scaled pulse + Backlighting 2 stage DC batcher and totaliser	R4 E0	EB10 batch controlle	rate totaliser (Alloy housing)			
L	2 diago pro paraner and rorander			er DmA analog output; 80°C (180°F) max.			
Integral		A1	Exd with Loop power	red 4-20mA Analogue Output, 80ºC (180ºF) ma			
•				output with FI option (only for MG004 & 006)			
	HORISHS EDUCATION	SB	Specific build require	ement			
		1 1 1					
See tem	Model No. Example MG006 S 5 1 1 - 5 1 250°F) rating for the pulse meter, 80°C (180°F) perature code 5 for higher temperature with BT fin is fitted with LCD instruments for operation	SB           1         R2           rating with BT,         RT, & EB	Specific build require RT, EB & Fl option	ement			
500	Recommende		ers				
	ST006S1 6 mm (1/-	4")-316SS	iers				
000	······································	4")-316SS	ners				



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