

## positive displacement flow meters

# M2 – 1/4" pulse meters

The M2 is one of the small capacity meters in the M-SERIES™ range and is differentiated by its flow rate capabilities. It has the ability to handle a wide range of fluid viscosities with exceptional levels of repeatability and durability.

### Features:

- Very compact size.
- Low flow capability with high resolution output.
- Solid state Hall Effect Sensor/Reed Switch Combination.
- Has IP54/NEMA13 protection. (M2SSPH-XY IP65/NEMA9)
- Flexibility of installation options (e.g. can be mounted horizontally or vertically; no flow conditioning required).
- Meter accuracy is verified by a factory calibration check after which an individual metrology report is issued.
- Low pressure drop allows for economical pump selection or gravity flow applications.
- Meter design minimises the number of wearable and replaceable parts and extends product life.

### Specifications:

MODEL	M2RSP-X	M2SSP-X	M2SSPH-X	M2ASP-X
Meter Type	Pulse	Pulse	Pulse	Pulse
Meter Body Material	PPS	316 Stainless Steel	316 Stainless Steel	Aluminium
Wetted Components:				
Rotor Materials	316 Stainless Steel / Ceramic	316 Stainless Steel / Ceramic	316 Stainless Steel / Ceramic	316 Stainless Steel / Ceramic
Shafts	316 Stainless Steel	316 Stainless Steel	316 Stainless Steel	316 Stainless Steel
O'ring	FKM	FKM	FKM	FKM
Flow Rate Ranges (Litres Per Hour/US Gallons Per Hour)				
Above 5 cPs	15 To 500 / 4 To 132	15 To 500 / 4 To 132	15 To 500 / 4 To 132	15 To 500 / 4 To 132
Below 5 cPs	25 To 500 / 7 To 132 (Excluding Water)	25 To 500 / 7 To 132	25 To 500 / 7 To 132	25 To 500 / 7 To 132
Accuracy- Within (of reading)	+/- 1%	+/- 1%	+/- 1%	+/- 1%
Repeatability	0.03%	0.03%	0.03%	0.03%
Maximum Viscosity	1000 Centipoise (> 1000 Option)	1000 Centipoise (> 1000 Option)	1000 Centipoise (> 1000 Option)	1000 Centipoise (> 1000 Option)
Maximum Operating Pressure				
	500kpa/ 75 Psi/ 5 Bar	1000kpa/ 150psi/ 10bar	55000kpa/8000psi/550Bar (Intermediate 5500kpa/800psi/ 55Bar)	500kpa/ 75psi/ 5bar
Pulsar Type				
	Dual Hall Effect Sensor/Reed Switch	Dual Hall Effect Sensor/Reed Switch	Hall Effect Sensor or Reed Switch	Dual Hall Effect Sensor/Reed Switch
Pulses Per Litre/Us Gallon				
	400 / 1514.2	400 / 1514.2	400 / 1514.2	400 / 1514.2
Model Dimensions				
Meter Body	50x50mm / 1.97"X1.97"	50x50mm / 1.97"X1.79"	86mm Dia X 110mm H / 3.4" Dia X 4.33" H	50mm X 50mm / 1.97" X 1.97"
Port Face To Face	67mm / 2.64"	67mm / 2.64"	83mm / 3.26"	60mm / 2.36"
Weight				
	240g / 8.5oz	600g / 21.2oz	3.3kg / 116.5oz	320g / 12g
Max. Operating Temperature				
	80°C / 176°F	120°C / 248°F	120°C / 248°F	80°C / 176°F
Recommended Mesh				
Strainer Size	200 Mesh	200 Mesh	200 Mesh	200 Mesh

**X = Port Size** To order flowmeter you must replace 'X' with the relevant number.

**Meter mounted MR100 LCD and or MR150LA (4-20mA module)**

**Special variant - Hi viscosity rotors for above 1000 cPs fluids.**

### Port Size:

Port Size:	Calibrated In:	Electrical Connections
1 = 1/4" BSP (F) ports	litres	1m/39" pulser fly lead (5 core cable)
2 = 1/4" NPT (F) ports	US gallons	1m/39" pulser fly lead (5 core cable)
1 = 1/4" BSP (F) ports	HP only with pulser cap	litres
2 = 1/4" NPT (F) ports		US gallons
6 = TRI-CLOVER™	Litres	1m/39" pulser fly lead (5 core cable)
7 = TRI-CLOVER™	US gallons	1m/39" pulser fly lead (5 core cable)

PPS = Polyphenylene Sulfide Resins

Note: Water usage is limited due to poor lubricating quality of the fluid limiting accuracy and bottom end stable operation.



M2SSP-X



MR100



M2SSPH-X

# M2 – 1/4” pulse meters

## Options and accessories

M2 - 1/4" PULSE METERS	M2RSP-X	M2SSP-X	M2SSPH-X	M2ASP-X
FKM O-Ring	●	●	●	●
FFPM Elastomer	○	○	○	○
EPDM O-Ring	○	○	○	○
High Temp Rotors	-	-	-	-
High Viscosity Rotors	○	○	○	○
Hall Effect Sensor	●	●	○	●
Reed Switch	●	●	●	●
Solvent Kit	-	-	-	-
PPS Rotors With Hastalloy C Shafts	○	-	-	-
Remote Mounted LC Display	+	+	+	+
4-20ma Module (Remote)	+	+	+	+
Meter Mounted LC Display	+	+	+	+
Meter Mounted 4-20mA Module	+	+	+	+

● Standard ○ Optional - Not Available + Accessory

## Dimensions

