

positive displacement flow meters

M1 – 1/4" pulse meters

The M1 is a small capacity meter 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.
- Meter accuracy is verified by a factory calibration check after which an individual metrology report is issued.
- Solid state Hall Effect Sensor/Reed Combination.
- 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.
- Has IP54/NEMA13 protection.
MISSPH-XY IP65-NEMA 9
- Flexibility of installation options (e.g. can be mounted horizontally or vertically; no flow conditioning required).



M1RSP-X



MR100



M1SSPH-X



Specification:

MODEL	M1RSP-X	M1SSP-X	M1SSPH-X	M1ASP-X
Meter Type	Pulse	Pulse	Pulse	Pulse
Meter Body Material	PPS	316 Stainless Steel	316 Stainless Steel	Aluminium / PPS
Wetted Components:				
Rotor Material	316 Stainless Steel / Ceramic	316 Stainless Steel / Ceramic	316 Stainless Steel / Ceramic	316 Stainless Steel / Bronze
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	2 To 100 / 0.53 To 26.4	2 To 100 / 0.53 To 26.4	2 To 100 / 0.53 To 26.4	2 To 100 / 0.53 To 26.4
Below 5 cPs (Excluding Water)	5 To 100 / 1.32 To 26.4	5 To 100 / 1.32 To 26.4	5 To 100 / 1.32 To 26.4	5 To 100 / 1.32 To 26.4
Accuracy- Within (Of Reading)	+/- 1%	+/- 1%	+/- 1%	+/- 1%
Repeatability	0.03%	0.03%	0.03%	0.03%
Maximum Viscosity	1000 Centipoise	1000 Centipoise	1000 Centipoise	1000 Centipoise
Maximum Operating Pressure	500kpa/ 75 Psi/ 5 Bar	1000kpa/ 150psi/ 10bar	55160kpa/ 8000psi/ 551bar	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	1000 / 3785.4	1000 / 3785.4	1000 / 3785.4	1000 / 3785.4
Model Dimensions				
Meter Body	50x50mm / 1.97"x1.97"	50x50mm / 1.97"x1.97"	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	310g / 11oz
Max. Operating Temperature	80°C / 176°F	120°C / 248°F	120°C / 248°F	80°C / 176°F
Recommended Mesh	200 Mesh	200 Mesh	200 Mesh	200 Mesh
Strainer				

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

Meter mounted options = MR100 LCD and or MR150LA (4-20mA - module) or combination of both.

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 litres pulsar cap US gallons	20mm (F) Conduit Thread
2 = 1/4" NPT (F) ports		1/2" NPT (F)

PPS = Polyphenylene Sulfide Resins

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

M1 – 1/4" pulse meters

Options and accessories

M1 - 1/4" Pulse Meters	M1RSP-X	M1SSP-X	M1SSPH-X	M1ASP-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

