

## positive displacement flow meters

# WM50 – 2” pulse meters M50 – 2” pulse and LC display meters

The M50 is a large capacity meter in the M-SERIES™ range. It has the ability to handle a wide range of fluid viscosities with exceptional levels of repeatability and durability.

### Features

- Compact size.
- Two independent pulse units.
- Flexibility of installation options (e.g. can be mounted horizontally or vertically; no flow conditioning required).
- Low pressure drop allows for economical pump selection or gravity flow applications.
- Meter construction enables fast and easy on-site servicing without removal from application.
- Meter design minimises the number of wearable and replaceable parts and extends product life.
- Meter accuracy is verified by a factory calibration check after which an individual metrology report is issued.
- All LC Displays meets European CE directive for EMC.
- Standard/Deluxe Displays MR100 and Pulse Version have IP65/NEMA9 protection.
- Intrinsically safe LC Deluxe and Standard Displays. Certificate of conformity number PTB Nr. Ex-93.C.4033x & KEMA Ex-00.E.1127x
- Pulse Versions have Flameproof Certification. AUS Ex2377x



M50ARP-X



Standard LC Display

Deluxe LC Display

MR100

### Specifications

Model	M50/WM50
Meter Type	Pulse / Standard LC Display / Deluxe LC Display / MR100 LC Display
Meter Body Material	Aluminium / 316 Stainless Steel / Bronze
Wetted Components:	
Rotor Material	PPS / 316 Stainless Steel / Hi Flow PPS
Shafts	316 Stainless Steel
O'ring	NBR (Nitrile)
Flow Rate Ranges (Litres Per Minute/Us Gallons Per Minute)	
Above 5 cPs	15 To 350 / 4 To 93 (HF 15 to 550 / 4 to 146)
Below 5 cPs	30 To 300 / 8 To 79
Accuracy- Within (Of Reading)	+/- 0.5%
Repeatability	0.03%
Maximum Viscosity (Of Standard Model)	1000 Centipoise ( > 1000 Hi Vis Rotors)
Maximum Operating Pressure	5500 kpa/800psi/55bar or as per flange rule (*PEI 1800kpa/260psi/18bar)
Pulsers Type	Hall Effect or Reed Switch or Combination HE / RS
Pulses Per Litre/Us Gallons	6.68 / 25.29
Max. Operating Temperature	80°C / 176°F, High Temp Option 120°C / 248°F
Recommended Mesh Strainer Size	60 Mesh

### Port Size

To order flowmeter you must replace 'X' with the relevant number. This number will determine the following specifications:

Port Size:	Calibrated and Display In:	Electrical Conduit Connection:
1 = 2" BSP (F) Ports	Litres	20mm (F)
2 = 2" NPT (F) Ports	US Gallons	1/2" NPT (F)
3 = 2" ANSI 150lb Flange	Litres	20mm (F)
4 = 2" ANSI 150lb Flange	US Gallons	1/2" NPT (F)
6 = 2" Tri Clover Flange	Litres	20mm (F)
7 = 2" Tri Clover Flange	US Gallons	1/2" NPT (F)
5 = 50mm DIN 16 Flange	Litres	20mm (F)
13 = 50mm JIS 10k flange	Litres	20mm (F)

PPS = Polyphenylene Sulfide Resins

Note: See relevant "Flange Technical Information"

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Options & Accessories

WM50 - 2" PULSE AND LC DISPLAY METERS M50 - 2" PULSE AND LC DISPLAY METERS	WM50ARX-X M50ARX-X	WM50SRX-X M50SRX-X	WM50SSX-X M50SSX-X	WM50ASX-X M50ASX-X
FKM O-Ring	○	○	○	○
FEP O-Ring	○	○	○	○
EPDM O-Ring	○	○	○	○
High Temp Rotors	○	○	●	●
High Viscosity Rotors	○	○	○	○
Hall Effect Sensor	○	○	○	○
Reed Switch	●	●	●	●
Solvent Kit	-	-	-	-
Hastalloy C Shafts	-	-	-	-
Protective Boot Deluxe LCD	+	+	+	+
Protective Boot Standard Display	+	+	+	+
Remote Mounted LC Display	+	+	+	+
Heating Jacket	+	+	+	+
4-20ma Module Meter or Remote Mount	+	+	+	+

● Standard ○ Optional - Not Available + Accessory

Dimensions

