

positive displacement flow meters

WM10 – 1” pulse meters M10 – 1” pulse and LC display meters

The M10 is the medium 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 which can be linked to allow doubling of the pulse output.
- 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.
- LC Display meets European CE directive for EMC.
- Deluxe/Standard Displays Pulse Version have IP65/NEMA9 protection.
- Intrinsically safe LC Deluxe & Standard Displays. Certificate of conformity numbers PTB Nr. Ex-93.C.4033x & KEMA 05ATEX1168X
- Pulse versions have Flameproof Certification AUS Ex2377x

Specification:

| Model | M10/WM10 |
|--|--|
| Meter Type | Pulse / Standard LC Display / Deluxe LC Display / MR100 LC Display |
| Meter Type | Pulse / LCD |
| Meter Body Material | Aluminium / 316 Stainless Steel / Bronze |
| Wetted Components: | |
| Rotor Material | PPS / 316 Stainless Steel |
| Shafts | 316 Stainless Steel |
| O'ring | NBR (Nitrile) |
| Flow Rate Ranges (Litres Per Minute/US Gallons Per Minute) | |
| Above 5 cPs | 6 To 120 / 1.6 To 32 |
| Below 5 cPs | 10 To 100 / 2.6 To 26 |
| Accuracy - Within (Of Reading) | +/- 0.5% |
| Repeatability | 0.03% |
| Maximum Viscosity (Of Standard Model) | 1000 Centipoise (optional hi viscosity rotors) |
| Maximum Operating Pressure | 5500kpa/ 800 Psi/ 55 Bar Flange Rule Where Fitted |
| Pulser Type | Hall Effect or Reed Switch or Combination HE / RS |
| Pulses Per Litre/Us Gallon | 36 / 136.3 With Dual Pulse Output 72 / 272.6 |
| Max. Operating Temperature | 80°C / 176°F / High Temp Option 120°C / 248°F |
| Recommended Mesh Strainer Size | 60 Mesh |



M10ARP-X



Standard LC Display



Deluxe LC Display



MR100

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 = 1" BSP (F) ports | Litres | 20mm (F) |
| 2 = 1" NPT (F) ports | US Gallons | 1/2" NPT (F) |
| 3 = 1" ANSI 150lb Flange | Litres | 20mm (F) |
| 4 = 1" ANSI 150lb Flange | US Gallons | 1/2" NPT (F) |
| 5 = 25mm DIN 16 Flange | Litres | 20mm (F) |
| 6 = 1" Triclover Flange | Litres | 20mm (F) |
| 7 = 1" Triclover Flange | US Gallons | 1/2" NPT (F) |
| 13=25mm JIS 10K Flange | Litres | 20mm (F) |

PPS = Polyphenylene Sulfide Resins

Bronze = Available in 1 or 2 port configuration only

Note: See relevant Flange Technical Information on page 45

Special Models

| | |
|------------------------|---|
| M10ARPH-X | High Pressure Version |
| M10SSPH-X | High Pressure Version |
| Threaded Versions Only | Working Pressure 13800 kPa / 2000 PSI / 138 BAR |

Available Options: All as listed

WM10 – 1” pulse meters

M10 – 1” pulse and LC display meters

Options and accessories

| WM10 - 1" PULSE AND LC DISPLAY METERS M10 - 1" PULSE AND LC DISPLAY METERS | WM10ARX-X M10ARX-X | WM10ASX-X M10ASX-X | WM10SRX-X M10SRX-X | WM10SSX-X M10SSX-X | WM10BRX-X M10BRX-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 | + | + | + | + | + |

● Standard ○ Optional - Not Available + Accessory

Dimensions

