**macnaught**

# Model: MX12P-1TE

1/2" Oval gear flow meter designed for a broad range of Industrial Process applications.

- Stainless Steel construction
- FEP - Teflon® encapsulated seals
- Max flow rate 30 LPM / 8 GPM
- Temperatures up to 150°C
- Accuracy +/- 0.5% (0.25% available)
- Available with BSP(Rp) or NPT Process connections
- Suitable for high viscosity fluids

## Select a Flowmeter

### Step 1.Size

12 (1/2")

### Step 2.Family

P series -INDUSTRIAL

### Step 3.Process Connection

1 - BSP (Rp)

### Step 4.Rotor Type

T - High Temp

### Step 5.Pulser

E - 12mm LC Display (with outputs)

### Process Connection

| Port Size | 1/2" |
|---|---|
| Connection Type | BSP (Rp) |

### Material of Construction

| Body | 316SS |
|---|---|
| Rotor | 316SS |
| Bushing | Carbon |
| Seal | FEP (Teflon®) |

## Technical Specifications

| Flow Range | <5cps | >5cps |
|---|---|---|
| | 3 - 25 LPM | 2 - 30 LPM |
| | 0.8 - 6.6 GPM | 0.5 - 8 GPM |
| Max Pressure | 13790 kPa | 2000 psi |
| Temperature | -20 - 60°C | -4 - 140°F |
| K-Factor | Refer to Flowmeter Data Plate | |
| Accuracy | +/- 0.5% (0.25% available with reduced range) | |
| Repeatability | +/- 0.03% | |

## Service Kits

| | Part Number | Description |
|---|---|---|
| Rotor Kit | MXS-12P-HTrotor | Rotor set and O-ring |
| Seal Kit | MXS-12P-seal | Meter Cap O-Ring - FEP (Teflon®) |

## Accessories

| SS Y Strainer | YS012-01 |
|---|---|
| Air Eliminator/Strainer | N/A |
| Wall Mount Adaptor | MXA-12-WM |
| 3 point cal check | MXA-3ptcal |
| Pressure test | MXA- PRESSTEST |

# DIGITAL DISPLAY
# TYPE: E

## Type PRA 12mm LC Display (c/w outputs)

The PRA series is a meter mounted digital register with a 12mm LCD display, providing real-time indication of Flow rate, total and accumulated total. The output facilities include a 4-20mA, scaled pulse output and a High/Low flow alarm function.

## Construction

| Material | Polypropylene | |
|---|---|---|
| IP Rating | 67 | |
| Mounting | Meter Mount | |
| Connection | M-Lock ™ | |
| Cable Entry | 2x 12mm (blind) | |
| Dimensions | **Height (mm)** | **Diameter (mm)** |
| | 48 mm | 99 mm |

## Technical Specifications

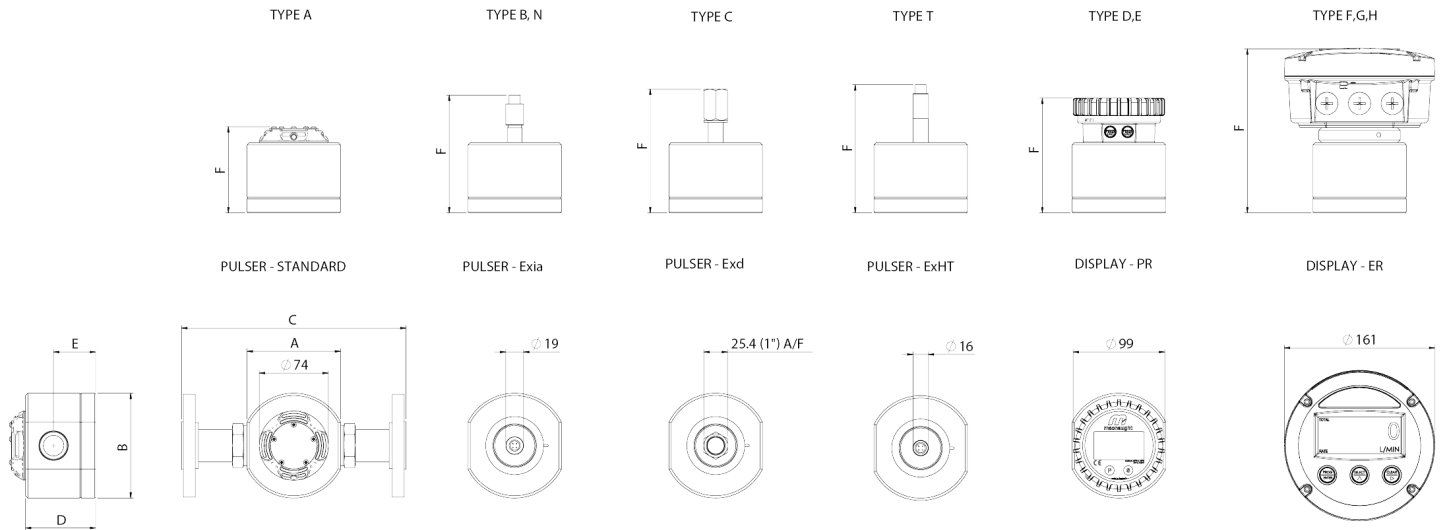| Power Supply | **Battery** | **External Pwr Supply** |
|---|---|---|
| | 3V Lithium | 18-30VDC |
| Backup | EEPROM Flash memory | |
| Outputs | 4-20mA | |
| | Scaled Pulse | |
| | Hi/Lo Flow | |

## Service Kits

| Part Number | Description |
|---|---|
| MXS-PCB-PR | PCB + Housing to suit display types D, E |
| MXS-DIS-PRA | LCD unit to suit Disply PRA |

## LC Display

| Digital Size | **Upper LCD** | **Lower LCD** | |
|---|---|---|---|
| | 7 digit / 12mm | 7 digit / 7mm | |
| Display | **Total** | **Acc Total** | **Flow Rate** |
| | resettable | non-resettable | User defined units |

| TYPE A | TYPE B, N | TYPE C | TYPE T | TYPE D,E | TYPE F,G,H |
| PULSER - STANDARD | PULSER - Exia | PULSER - Exd | PULSER - ExHT | DISPLAY - PR | DISPLAY - ER |

| METER SIZE | PORT SIZE | METER AND FLANGE DIMENSIONS | | | | | PULSAR AND DISPLAY HEIGHT - F | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | A | B | C | D | E | TYPE A | TYPE B, N | TYPE C | TYPE T | TYPE D,E | TYPE F,G,H |
| MX06 | 1/4" | 71 | 74 | N/A | 42 | 25 | 59 | 93 | 100 | 104 | 90 | 143 |
| MX09 | 1/4" | 71 | 74 | N/A | 42 | 24 | 59 | 93 | 100 | 104 | 90 | 143 |
| MX12 | 1/2" | 81 | 87 | N/A | 49 | 28 | 66 | 100 | 107 | 111 | 97 | 150 |
| MX19 | 3/4" | 100 | 112 | N/A | 62 | 37 | 79 | 113 | 120 | 124 | 110 | 163 |
| MX25 | 1" | 100 | 112 | 240 | 75 | 45 | 92 | 126 | 133 | 137 | 123 | 176 |
| MX40 | 1 1/2" | 120 | 137 | 240 | 103 | 61 | 120 | 154 | 161 | 165 | 151 | 204 |
| MX50 | 2" | 140 | 163 | 264 | 124 | 72 | 141 | 175 | 182 | 186 | 172 | 225 |