### GENERAL PURPOSE PANEL MOUNT

**Flowmeters**

<table>
<thead>
<tr>
<th>SERIES</th>
<th>RMA</th>
<th>RMB</th>
<th>RMC</th>
<th>VFA</th>
<th>VFB</th>
<th>VFC/VFCR</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Ranges</strong></td>
<td>0.05 to 200 SCFH air (0.05 to 5600 cc/m air)</td>
<td>0 to 50 GPH water (0 to 220 LPM water)</td>
<td>1 to 100 GPH water (4 to 500 LPM water)</td>
<td>0.1 to 200 SCFH air (0.05 to 5600 cc/m air)</td>
<td>0.5 to 200 SCFM air (0.3 to 7200 LPM air)</td>
<td>0.5 to 100 SCFM air (0.3 to 7200 LPM air)</td>
</tr>
<tr>
<td><strong>Accuracy</strong></td>
<td>±5% FS</td>
<td>±5% FS</td>
<td>±5% FS</td>
<td>±5% FS</td>
<td>±5% FS</td>
<td>±5% FS</td>
</tr>
<tr>
<td><strong>Body Materials</strong></td>
<td>Polycarbonate</td>
<td>Polycarbonate</td>
<td>Polycarbonate</td>
<td>Polycarbonate</td>
<td>Polycarbonate</td>
<td>Polycarbonate</td>
</tr>
<tr>
<td><strong>Temperature Limits</strong></td>
<td>130°F (54°C)</td>
<td>130°F (54°C)</td>
<td>130°F (54°C)</td>
<td>120°F (49°C)</td>
<td>120°F (49°C)</td>
<td>120°F (49°C)</td>
</tr>
<tr>
<td><strong>Pressure Limits</strong></td>
<td>100 psi (6.7 bar)</td>
<td>100 psi (6.7 bar)</td>
<td>100 psi (6.7 bar)</td>
<td>100 psi (6.7 bar)</td>
<td>100 psi (6.7 bar)</td>
<td>100 psi (6.7 bar)</td>
</tr>
<tr>
<td><strong>Process Connections</strong></td>
<td>1/8” female NPT back connections</td>
<td>1/4” female NPT back connections</td>
<td>1/2” female NPT back connections</td>
<td>1/8” female NPT back or end connections</td>
<td>1/8” female NPT back or end connections</td>
<td>1 female or male NPT or BSPT back or end connections</td>
</tr>
<tr>
<td><strong>Scale Length</strong></td>
<td>10” (254 mm)</td>
<td>10” (254 mm)</td>
<td>10” (254 mm)</td>
<td>10” (254 mm)</td>
<td>10” (254 mm)</td>
<td>10” (254 mm)</td>
</tr>
<tr>
<td><strong>Metering Valve</strong></td>
<td>Optional bottom or top-mount brass or stainless steel valve</td>
<td>Optional bottom or top-mount brass or stainless steel valve</td>
<td>Optional bottom or top-mount brass or stainless steel valve</td>
<td>Optional bottom or top-mount brass or stainless steel valve</td>
<td>Optional bottom or top-mount brass or stainless steel valve</td>
<td>Optional bottom or top-mount brass or stainless steel valve</td>
</tr>
</tbody>
</table>

### GENERAL PURPOSE IN-LINE

**Flowmeters**

<table>
<thead>
<tr>
<th>SERIES</th>
<th>LFMA</th>
<th>LFMB</th>
<th>LFMC</th>
<th>LFMD</th>
<th>LFME</th>
<th>LFMF</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Ranges</strong></td>
<td>0.1 to 15 GPM water (0.6 to 73 LPM water)</td>
<td>0.1 to 15 GPM water (0.6 to 73 LPM water)</td>
<td>0.25 to 30 GPM water (1 to 130 LPM water)</td>
<td>0.8 to 10 GPM water (3 to 40 LPM water)</td>
<td>1.4 to 25 GPM water (5 to 100 LPM water)</td>
<td>5.5 to 70 GPM water (22 to 250 LPM water)</td>
</tr>
<tr>
<td><strong>Accuracy</strong></td>
<td>±5% FS</td>
<td>±5% FS</td>
<td>±5% FS</td>
<td>±5% FS</td>
<td>±5% FS</td>
<td>±5% FS</td>
</tr>
<tr>
<td><strong>Body Materials</strong></td>
<td>Polycarbonate</td>
<td>Polycarbonate</td>
<td>Polycarbonate</td>
<td>Polycarbonate</td>
<td>Polycarbonate</td>
<td>Polycarbonate</td>
</tr>
<tr>
<td><strong>Process Connections</strong></td>
<td>1/8” male NPT in-line or 90° elbow connections</td>
<td>1/8” male NPT in-line or 90° elbow connections</td>
<td>1/2” male NPT in-line or 1/2” male NPT 90° elbow connections</td>
<td>1/2” male NPT in-line or 3/4” male NPT 90° elbow connections</td>
<td>1/2” male NPT in-line or 1” male NPT 90° elbow connections</td>
<td>2 male or female NPT in-line connections</td>
</tr>
<tr>
<td><strong>Scale Length</strong></td>
<td>2” (51 mm)</td>
<td>3” (76 mm)</td>
<td>3” (76 mm)</td>
<td>3” (76 mm)</td>
<td>4.5” (114 mm)</td>
<td>5” (127 mm)</td>
</tr>
</tbody>
</table>

These Selection Guides are for quick comparison of similar products. Please refer to the website for complete product information and specifications.
Flowmeters

**SERIES VAT TVA VA1000 VA1500 VA2000 VA25000 OR10000 OR20000**

**Ranges**
- VAT: 1 to 75 GPH water (75 to 5000 ml/min water)
- TVA: 3.4 to 76 GPH water (400 to 5000 ml/min water)
- VA1000: 0.04 to 29.9 GPH air (20 to 136 l/min air)
- VA1500: 0.05 to 109.6 GPH air (500 to 1600 l/min air)
- VA2000: 0.008 to 20.4 GPH air (10 to 120 l/min air)
- VA25000: 0.008 to 39.7 GPH air (100 to 240 l/min air)
- OR10000: 0.024 to 200 GPH air (100 to 800 l/min air)
- OR20000: 0.033 to 90 GPH air (100 to 300 l/min air)

**Accuracy**
- ±5% FS
- ±2% FS
- ±2% FS
- ±2% FS
- ±2% FS
- ±5% FS
- ±5% FS
- ±5% FS

**Body Materials**
- PFA
- Glass flow tube
- Glass flow tube
- Glass flow tube
- Glass flow tube
- Glass flow tube
- Glass flow tube
- Glass flow tube

**Temperature Limits**
- 250°F (121°C)
- 250°F (121°C)
- 250°F (121°C)
- 150°F (65°C)
- 250°F (121°C)
- 150°F (65°C)
- 250°F (121°C)
- 250°F (121°C)

**Pressure Limits**
- 100 psi (6.7 bar)
- 100 psi (6.7 bar)
- 200 psi (13.8 bar)
- 100 psi (6.7 bar)
- 200 psi (13.8 bar)
- 100 psi (6.7 bar)
- 250 psi (17 bar)
- 250 psi (17 bar)

**Process Connection**
- 1/4˝ or 3/8˝ female NPT back connections
- 1/4˝ or 3/8˝ female NPT back connections
- 1/8˝ female NPT back connections
- 1/8˝ female NPT back connections
- 1/8˝ female NPT back connections
- 1/8˝ female NPT back connections
- 1/8˝ female NPT back connections
- 1/8˝ female NPT back connections

**Scale Length**
- 5˝ (127 mm)
- 3˝ (75 mm)
- 2.5˝ (65 mm)
- 1/8˝ (6 mm)
- 1/8˝ (6 mm)
- 1/8˝ (6 mm)
- 2.5˝ (65 mm)
- 6˝ (150 mm)

**Metering Valve**
- N/A
- Optional 6-turn needle valve
- Optional 16-turn high-precision valve
- Optional 16-turn high-precision valve
- Optional 16-turn high-precision valve
- Optional 6-turn needle valve
- Optional 6-turn needle valve
- Optional 6-turn needle valve

**SERIES IF HF TVFS SSM**

**Ranges**
- IF: 1 to 250 SCFM air (35 to 7080 LPM air)
- HF: 0.25 to 116 GPM water (0.95 to 439 LPM water)
- TVFS: 0.06 to 4.9 SCFM air (1.7 to 130 LPM air)
- SSM: 0.2 to 5.4, 4 to 120 GPM water (3.2 to 1300 LPM water)

**Accuracy**
- ±3% FS
- ±4% FS
- ±2% FS
- ±2% FS

**Body Materials**
- Glass flow tube
- Aluminum, brass, or 304 SS
- Body: T316 SS; O-ring: Buna-N; Sight tube: Polysulfone
- Body: T316 SS; O-ring: FKM

**Temperature Limits**
- 200°F (93°C)
- 240°F or 400°F (115° or 204°C)
- 300°F (149°C)
- 300°F (149°C)

**Pressure Limits**
- 600 psi to 6000 psi (41 to 413 bar)
- 600 psi to 6000 psi (41 to 413 bar)
- 540 psig (37 bar)
- 540 psig (37 bar)
- 540 psig (37 bar)
- 540 psig (37 bar)
- 540 psig (37 bar)
- 540 psig (37 bar)
- 540 psig (37 bar)

**Process Connection**
- 1/2˝ or 3/4˝ female NPT back connections
- 1/2˝ or 3/4˝ female NPT back connections
- 1/8˝ or 1/4˝ female NPT
- 1/8˝ or 1/4˝ female NPT
- 1/8˝ or 1/4˝ female NPT
- 1/8˝ or 1/4˝ female NPT
- 1/8˝ or 1/4˝ female NPT
- 1/8˝ or 1/4˝ female NPT

**Scale Length**
- 4-3/4˝ (120 mm)
- 1-1/2˝ to 2-1/4˝ (38 to 57 mm)
- 5/8˝ to 1-1/4˝ (15 to 32 mm)
- 5/8˝ to 1-1/4˝ (15 to 32 mm)
- 5/8˝ to 1-1/4˝ (15 to 32 mm)
- 5/8˝ to 1-1/4˝ (15 to 32 mm)
- 5/8˝ to 1-1/4˝ (15 to 32 mm)
- 5/8˝ to 1-1/4˝ (15 to 32 mm)

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**PADDLE AND THERMAL STYLE**

**Flow Switches**

**SERIES**

- **V4**
  - Service: Gases or Liquids
  - Set Point Range: 6 to 2400 GPM (12 to 9000 LPM)
  - Temperature Limits: -4 to 400°F (-20 to 205°C)
  - Pressure Limits: 5000 psig (345 bar)
  - Wetted Materials: Brass, 316 SS, 303 SS, 301 SS, Ceramic
  - Power Requirement: None
  - Enclosure Rating: WP and EXP
  - Switch Type: SPDT or DPDT
  - Process Connection: 1-1/2˝ male NPT
  - Agency Approvals: ATEX, CE, CSA, FM, KTL, UL

- **V6**
  - Service: Liquids
  - Set Point Range: 7 to 500 GPM (28.4 to 188 LPM)
  - Temperature Limits: -4 to 400°F (-20 to 205°C)
  - Pressure Limits: 2000 psig (138 bar)
  - Wetted Materials: Brass or 303 SS, 301 SS, 302 SS, Ceramic
  - Power Requirement: None
  - Enclosure Rating: WP and EXP
  - Switch Type: SPDT or DPDT
  - Process Connection: 1-1/2˝ female NPT
  - Agency Approvals: CE, UL

- **V7**
  - Service: Liquids
  - Set Point Range: 8.8 to 58 GPM (32.4 to 218 LPM)
  - Temperature Limits: -40 to 250°F (-40 to 121°C)
  - Pressure Limits: 250 psig (17.2 bar)
  - Wetted Materials: Brass or 316 SS, 303 SS, 302 SS, 316 SS, Ceramic
  - Power Requirement: None
  - Enclosure Rating: WP
  - Switch Type: SPDT
  - Process Connection: 1˝ female NPT
  - Agency Approvals: CE

- **V10**
  - Service: Liquids
  - Set Point Range: 8.8 to 25 GPM (32.4 to 94.6 LPM)
  - Temperature Limits: -40 to 275°F (-40 to 135°C)
  - Pressure Limits: 145 psig (10.0 bar)
  - Wetted Materials: Brass or 316 SS, 303 SS, 302 SS, Ceramic
  - Power Requirement: None
  - Enclosure Rating: WP
  - Switch Type: SPDT
  - Process Connection: 1˝ female NPT
  - Agency Approvals: CE

- **V8**
  - Service: Liquids
  - Set Point Range: 3 to 2400 GPM (12 to 9000 LPM)
  - Temperature Limits: -4 to 400°F (-20 to 205°C)
  - Pressure Limits: 5000 psig (345 bar)
  - Wetted Materials: Brass or 303 SS, 301 SS, 302 SS, Ceramic
  - Power Requirement: None
  - Enclosure Rating: WP and EXP
  - Switch Type: SPDT or DPDT
  - Process Connection: 1-1/2˝ female NPT
  - Agency Approvals: CE, UL

- **FS-2**
  - Service: Liquids
  - Set Point Range: 4 to 250 GPM (15 to 950 LPM)
  - Temperature Limits: -5 to 100°F (-15 to 30°C)
  - Pressure Limits: 500 psig (34.5 bar)
  - Wetted Materials: Brass, DS
  - Power Requirement: 9 to 24 VDC
  - Enclosure Rating: WP
  - Switch Type: SPDT
  - Process Connection: 1˝ male NPT
  - Agency Approvals: CE

- **TDFS**
  - Service: Liquids
  - Set Point Range: 4 to 250 GPM (15 to 950 LPM)
  - Temperature Limits: -5 to 100°F (-15 to 30°C)
  - Pressure Limits: 500 psig (34.5 bar)
  - Wetted Materials: Brass, DS
  - Power Requirement: 9 to 24 VDC
  - Enclosure Rating: WP
  - Switch Type: SPDT
  - Process Connection: 1˝ male NPT
  - Agency Approvals: CE

**PISTON STYLE**

**Flow Switches**

**SERIES**

- **P2**
  - Service: Gases or Liquids
  - Set Point Range: 0.5 to 2 GPM (2 to 7.5 LPM)
  - Temperature Limits: -4 to 400°F (-20 to 205°C)
  - Pressure Limits: 150 psig (10.3 bar)
  - Wetted Materials: PTFE, 316 SS, PPS, Composite, Epoxy
  - Power Requirement: None
  - Enclosure Rating: GP
  - Switch Type: SPST, NO
  - Process Connection: 1/4˝ female NPT
  - Agency Approvals: CE

- **P3**
  - Service: Liquids
  - Set Point Range: 0.05 to 1 GPM (0.2 to 3.79 LPM)
  - Temperature Limits: 0 to 212°F (-18 to 100°C)
  - Pressure Limits: 125 psig (8.6 bar)
  - Wetted Materials: Polypropylene, PPS Composite, 316 SS, PTFE
  - Power Requirement: None
  - Enclosure Rating: GP
  - Switch Type: SPST, NO
  - Process Connection: 1/4˝ female NPT
  - Agency Approvals: CE

- **P1**
  - Service: Liquids
  - Set Point Range: 1/10 to 1 GPM (0.38 to 3.79 LPM)
  - Temperature Limits: 0 to 212°F (-18 to 100°C)
  - Pressure Limits: 125 psig (8.6 bar)
  - Wetted Materials: Polypropylene, PPS Composite, 316 SS, PTFE
  - Power Requirement: None
  - Enclosure Rating: GP
  - Switch Type: SPST, NO
  - Process Connection: 1/4˝ female NPT
  - Agency Approvals: CE

- **P8**
  - Service: Liquids
  - Set Point Range: 1 to 8 GPM (3.8 to 30.3 LPM)
  - Temperature Limits: 0 to 300°F (100°C)
  - Pressure Limits: 400 psig (27 bar)
  - Wetted Materials: PTFE, 316 SS, PTFE, 316 SS, PTFE and bolting
  - Power Requirement: None
  - Enclosure Rating: GP
  - Switch Type: SPST
  - Process Connection: 1/2˝ female NPT
  - Agency Approvals: CE

- **GVS**
  - Service: Liquids
  - Set Point Range: 0.5 to 20 GPM (2 to 75.5 LPM)
  - Temperature Limits: 0 to 300°F (100°C)
  - Pressure Limits: 400 psig (27 bar)
  - Wetted Materials: PTFE, 316 SS, PTFE and bolting
  - Power Requirement: None
  - Enclosure Rating: GP
  - Switch Type: SPST
  - Process Connection: 1/2˝ female NPT
  - Agency Approvals: CE

- **AFS**
  - Service: Liquids
  - Set Point Range: 0.5 to 25 GPM (2 to 94 LPM)
  - Temperature Limits: 0 to 300°F (100°C)
  - Pressure Limits: 400 psig (27 bar)
  - Wetted Materials: PTFE, 316 SS, PTFE and bolting
  - Power Requirement: None
  - Enclosure Rating: GP
  - Switch Type: SPST
  - Process Connection: 1/2˝ female NPT
  - Agency Approvals: CE

*Other options available, contact factory

**Other options available, contact factory**

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### PADDLE WHEEL/TURBINE/MULTI-JET

**Flow Transmitters**

<table>
<thead>
<tr>
<th>SERIES</th>
<th>TFP</th>
<th>PFT</th>
<th>SFI-100T</th>
<th>DFMT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Service</td>
<td>Liquid</td>
<td>Liquid</td>
<td>Liquid</td>
<td>Liquid</td>
</tr>
<tr>
<td>Wetted Materials</td>
<td>Brass</td>
<td>Brass</td>
<td>PTFE</td>
<td>PTFE</td>
</tr>
<tr>
<td>Accuracy</td>
<td>±3% FS</td>
<td>±3% FS</td>
<td>±1.5% FS</td>
<td>±1.5% FS</td>
</tr>
<tr>
<td>Temperature Limits</td>
<td>18°F (--8°C) to 122°F (50°C)</td>
<td>18°F (--8°C) to 122°F (50°C)</td>
<td>18°F (--8°C) to 122°F (50°C)</td>
<td>18°F (--8°C) to 122°F (50°C)</td>
</tr>
<tr>
<td>Pressure Limits</td>
<td>40 psig (2.8 bar)</td>
<td>400 psig (27.6 bar)</td>
<td>150 psig (10 bar)</td>
<td>150 psig (10 bar)</td>
</tr>
<tr>
<td>Pipe Size</td>
<td>1/8˝, 1/4˝, 3/8˝ or 1/2˝ (3.2 mm, 6.4 mm, 9.5 mm or 12.7 mm)</td>
<td>1/8˝, 1/4˝, 3/8˝ or 1/2˝ (3.2 mm, 6.4 mm, 9.5 mm or 12.7 mm)</td>
<td>1/8˝, 1/4˝, 3/8˝ or 1/2˝ (3.2 mm, 6.4 mm, 9.5 mm or 12.7 mm)</td>
<td>1/8˝, 1/4˝, 3/8˝ or 1/2˝ (3.2 mm, 6.4 mm, 9.5 mm or 12.7 mm)</td>
</tr>
<tr>
<td>Flow Rate</td>
<td>0.04 to 420 SCFH (0.02 to 200 LPM)</td>
<td>1.2 to 25 ft/s (0.37 to 7.62 m/s)</td>
<td>2 to 35 GPM (7.6 to 132.5 LPM)</td>
<td>0.44 to 176.11 GPM (0.1 to 40 m³/h)</td>
</tr>
<tr>
<td>Output</td>
<td>0 to 5 V</td>
<td>Pulsed</td>
<td>4 to 20 mA or pulsed</td>
<td>Pulsed</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SERIES</th>
<th>WMT2</th>
<th>WMH</th>
<th>WPT</th>
<th>WRBT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Service</td>
<td>Water</td>
<td>Water</td>
<td>Water</td>
<td>Water</td>
</tr>
<tr>
<td>Wetted Materials</td>
<td>Body and couplings: Brass; Measuring Chamber: ABS plastic</td>
<td>Body and couplings: Brass; Measuring Chamber: ABS plastic</td>
<td>Body and couplings: Eco Brass; Measuring Chamber: ABS plastic</td>
<td>Body and couplings: Eco Brass; Measuring Chamber: ABS plastic</td>
</tr>
<tr>
<td>Accuracy</td>
<td>±2% FS</td>
<td>WMH-A-X-XX: Transitional flow: ±3%; Nominal flow: ±1.5%</td>
<td>WPT-A-X-XX: Transitional flow: ±3%; Nominal flow: ±1.5%</td>
<td>Transitional flow: ±2%; Nominal flow: ±1.5%</td>
</tr>
<tr>
<td>Temperature Limits</td>
<td>104°F (40°C)</td>
<td>190°F (88°C)</td>
<td>122°F (50°C)</td>
<td>122°F (50°C)</td>
</tr>
<tr>
<td>Pressure Limits</td>
<td>232 psi (16 bar)</td>
<td>360 psi (25 bar)</td>
<td>150 psi (10 bar)</td>
<td>150 psi (10 bar)</td>
</tr>
<tr>
<td>Pipe Size</td>
<td>1/2˝ to 3˝ (12.7 mm to 76.2 mm)</td>
<td>1/2˝ to 3˝ (12.7 mm to 76.2 mm)</td>
<td>1/2˝ to 3˝ (12.7 mm to 76.2 mm)</td>
<td>1/2˝ to 3˝ (12.7 mm to 76.2 mm)</td>
</tr>
<tr>
<td>Flow Rate</td>
<td>20 to 160 GPM (3 to 30 m³/h)</td>
<td>20 to 160 GPM (3 to 30 m³/h)</td>
<td>20 to 160 GPM (3 to 30 m³/h)</td>
<td>20 to 160 GPM (3 to 30 m³/h)</td>
</tr>
<tr>
<td>Output</td>
<td>Pulsed</td>
<td>Pulsed</td>
<td>Pulsed</td>
<td>Pulsed</td>
</tr>
</tbody>
</table>

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### Electromagnetic, In-Line/Insertion Flow Transmitters

**SERIES** | **MFS** | **IEF** | **ULFB**
---|---|---|---
**Service** | Liquids | Liquids | Liquids
**Wetted Materials** | 316 SS | 316 SS | n/a
**Accuracy** | ±3% of reading | ±5% of reading, ±1% of reading or ±1% FS | ±2% of reading
**Temperature Limits** | -224°F (-30°C) to 212°F (99°C) | 15 to 250°F (-9 to 121°C) | 275°F (136°C)
**Pressure Limits** | 232 psi (16 bar) | 400 psi (27.6 bar) | N/A
**Pipe Size** | 1/2 to 3/4 in. (12.7 to 19.05 mm) | 1/2 to 30 in. (12.7 to 762 mm) | N/A
**Flow Rate** | 0 to 2.5 GPM (1 to 9.5 LPM) | 4 to 20 ft/s (1.2 to 6.1 m/s) | 0.33 to 65.6 ft/s (0.1 to 20 m/s)
**Output** | 4 to 20 mA or pulsed | 4 to 20 mA or pulsed | 4 to 20 mA

### Ultrasonic Flow Transmitters

**SERIES** | **UFM** | **PUB**
---|---|---
**Service** | Liquids | Liquids
**Wetted Materials** | n/a | n/a
**Accuracy** | ±3% of reading | ±5% of reading
**Temperature Limits** | -224°F (-30°C) to 212°F (99°C) | 275°F (136°C)
**Pressure Limits** | N/A | N/A
**Pipe Size** | 0.98 to 4.62 in. (25 to 117.35 mm) | 0.5 to 78 in. (13 to 2000 mm)
**Flow Rate** | 0.33 to 32.8 ft/s (0.1 to 10 m/s) | 0.33 to 65.6 ft/s (0.1 to 20 m/s)
**Output** | 4 to 20 mA and pulsed | 4 to 20 mA and pulsed
**Enclosure Rating** | NEMA 4X (IP66) | NEMA 4X (IP66)