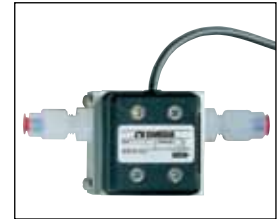


Micro—Flow meter Selection Guide



| Model No. | FTB500 | FTB9500 | FTB600B | FLR1000 | FPR1500 |
|---|--|--|---|---|---|
| Flow meter Type | Micro Impeller | Micro Impeller | Micro Turbine | Micro Turbine | Micro Turbine |
| Standard Calibration | Water | Water | Water | Water/Air | Water |
| Accuracy | 1% of Reading | 1/2% of Reading | 1% of Reading | 3% of Full Scale | 3% of Full Scale |
| Repeatability (Full Scale) | 0.25% of Reading | 0.25% of Reading | 0.1% of Reading | 0.5% of Full Scale | 0.2% of Full Scale |
| Minimum Flowrate (ml/min) | 76 | 23 | 0.1 | 20 | 15 |
| Maximum Flowrate (LPM) | 7.6 | 10 | 31.7 | 10 | 5 |
| Maximum Pressure (psig) | 1000 | 5000 | 150 | 200 | 60 |
| Maximum Temp °C (°F) | 232 (450) | 232 (450) | 85 (185) | 50 (122) | 70 (158) |
| Minimum Temp °C (°F) | -268 (-450) | -268 (-450) | -40 (-40) | 0 (32) | 0 (32) |
| Standard Output | 4 to 20 mA or 0 to 5V | Non-linear output, Frequency Sinewave | Frequency Squarewave | 0 to 5V | 0 to 5V |
| Optional Outputs with Integral Signal Conditioner | 4 to 20 mA or 0 to 5V | 4 to 20 mA, 0 to 5 V, 0 to 10 V, Squarewave | — | — | — |
| Required Power | 12 to 28 Vdc or 115 Vac optional | Self powered, 12 to 28 Vdc power with signal conditioner | 8 to 24 Vdc | 12 to 15 Vdc | 12 to 15 Vdc |
| Connection | 37° Flare Fitting | 1/2 NPT | 1/4, 1/2, 3/4, 1 1/4 NPT or Barb | 1/8, 1/4, 1/2 Tube fittings | 1/8, 1/4, 3/8 Tube fittings |
| Calibration Certificates | NIST Included | NIST Included | CAL-2 (no points) | CAL-2 (no points) | CAL-2 (no points) |
| Materials of Construction | Body: 304 SS Rotor: 17-4 PH SS Bearings: 440C SS Seals: Rulon-J | Body: 304SS 17-4 PH SS Bearings: 440C SS | Body: PVDF FKM O-rings (O-rings are not wetted on NPT units) sulphide | Standard Sensor Material: 40% glass filled polyphenelene tube fittings glass window, stainless steel bearing support; sapphire shaft and bearing; FKM rubber O-rings standard | PTFE, sapphire, Kalrez® gasket PFA PTFE compression Nylon |
| Integral Display Available | | | | ✓ | |
| Popular Compatible Meters | DPF60 | DP-F31-LIN, FC-21, 22 | DPF700, DPF75 | DPF60, DPI8 | DPF60 DPI8 |
| Additional Features | Low flow | Non-linear Low flow/ High pressure | Low flow | Low flow/ Economical Stainless Available | Low flow, chemically resistant |

Standard requirements for turbine and paddlewheel sensors: A minimum of 10 pipe diameters upstream and 5 downstream, full pipe, clean liquid, flow horizontal or flowing up. Positive displacement meters do not require straight pipe diameters upstream.

Micro—Flow meter Selection Guide



| Model No. | FLR1600A | FP-5060 | FP-5072-PV | FLV-400 | FTB300 |
|---|---|---|-------------------------------|---|-------------------------------|
| Flow meter Type | Differential Pressure | Micro Turbine | Micro Turbine | Micro Turbine | Micro Paddle |
| Standard Calibration | Water Only | Water | Water | Water | Water |
| Accuracy | 2% of Full Scale | 1% of Full Scale | 2% of Full Scale | 3% of Full Scale | 6% of Full Scale |
| Repeatability (Full Scale) | 2% of Full Scale | 0.5% of Reading | 0.25% of Reading | 1% of Full Scale | — |
| Minimum Flowrate (ml/min) | 0.5 | 110 | 400 | 13 | 30 |
| Maximum Flowrate (LPM) | 10 | 12.1 | 12 | 1 | 7 |
| Maximum Pressure (psig) | 100 | 80 | 80 | 100 | 150 |
| Maximum Temp °C (°F) | 50 (122) | 80 (176) | 120 (248) | 40 (104) | 93 (200) |
| Minimum Temp °C (°F) | 1 (34) | 0 (32) | -30 (-22) | 10 (50) | 0 (32) |
| Standard Output | 0 to 5 V, RS232 | Frequency Squarewave | Frequency Squarewave | 0 to 5 Vdc | Open Collector Alarm |
| Optional Outputs with Integral Signal Conditioner | 4 to 20 mA | — | — | — | — |
| Required Power | 7 to 30 Vdc | 5 to 24 Vdc | 5 to 24 Vdc | 11 to 15 Vdc | 9 to 28 Vdc |
| Connection | 10 to 32 Thread 1/8, 1/4 NPT | 1/4 NPT or ISO | 1/4 NPT | 1/8, 1/4 Tube Fitting | 1/8, 1/4 FNPT or 3/8" Tube |
| Calibration Certificates | NIST Included | CAL-2 (no points) | CAL-2 (no points) | CAL-2 (no points) | CAL-2 (no points) |
| Materials of Construction | 303 and 302 Stainless Steel, FKM, Silicone RTV, Glass Reinforced Valves: 304 SS Brass | Sensor base, cover and rotor shaft glass filled polyphenylene sulfide Rotor: PEEK, natural, unfilled Rotor O-Ring: FKM Cover O-Ring: FKM | PVDF, PTFE and FKM | 40% glass filled PPS, glass, stainless steel, sapphire, TFE, acetal | PVC, PVDF, FKM |
| Integral Display Available | ✓ | — | — | — | ✓ |
| Popular Compatible Meters | DPF60 | DPF700, DPF75 | DPF700, DPF75 | DPF60, DPI8 | — |
| Additional Features | Extremely Low flow | Low flow/ All Plastic | Low flow/ High Temperature | Corrosive Liquids | Economical NEMA 4X |

Standard requirements for turbine and paddlewheel sensors: A minimum of 10 pipe diameters upstream and 5 downstream, full pipe, clean liquid, flow horizontal or flowing up. Positive displacement meters do not require straight pipe diameters upstream.