

Signet and Ultrasonic Flow Sensors

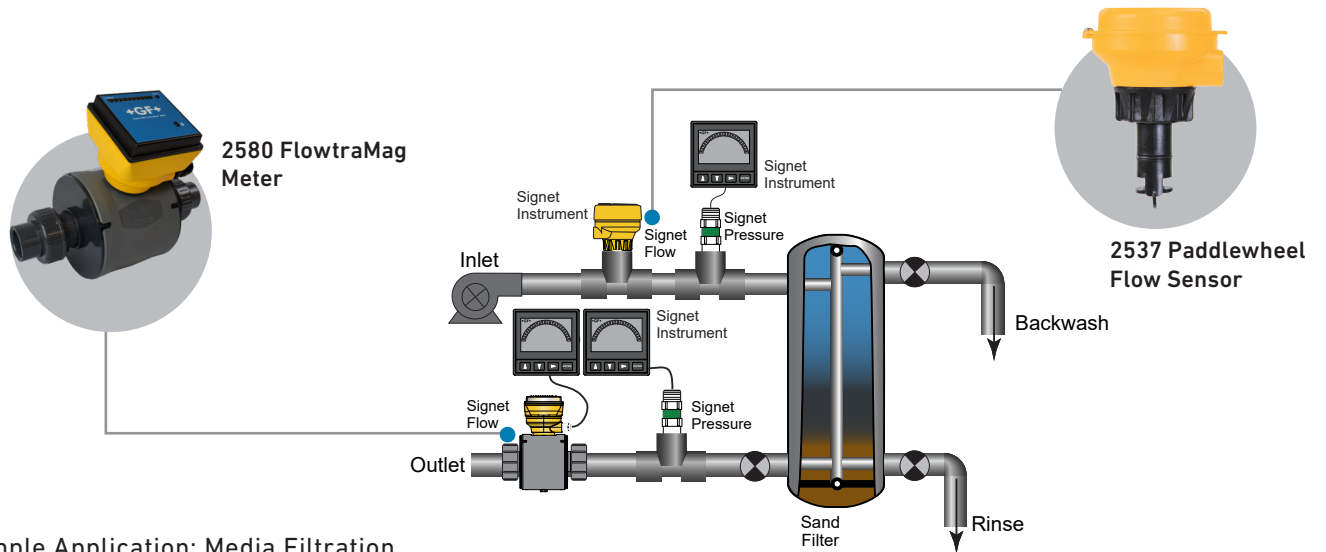
Paddlewheel, In-line Rotor, Turbine, Magnetic, Ultrasonic



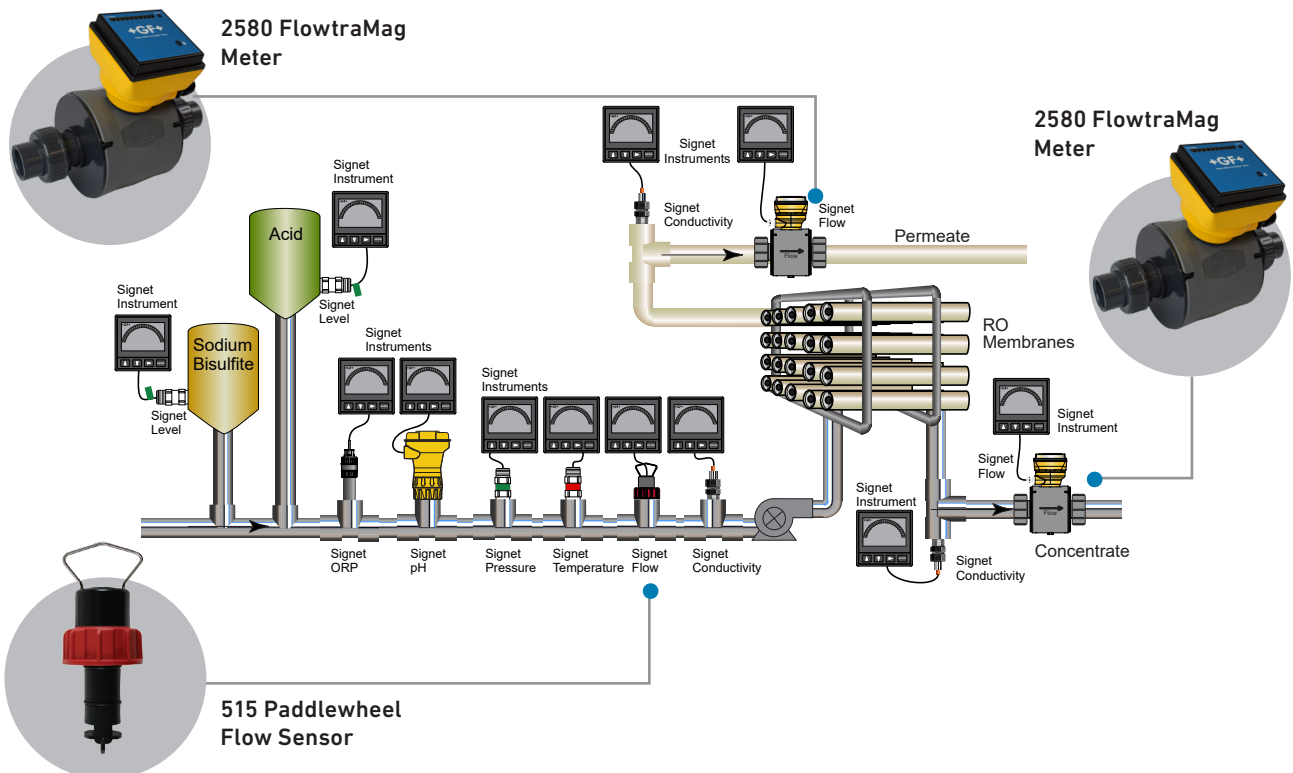
Applications

GF offers the optimal system solution behind the scenes

All GF Signet flow sensors comply with the high and specific requirements of the industry. GF provides reliable quality systems with worldwide support, long service life and cost-efficiency.



Example Application: Media Filtration



Example Application: Reverse Osmosis

Applications

GF flow sensors can be used in a wide variety of fluid media types.

Flow rate measurements can be conducted in media ranging from highly pure to highly contaminated, and allows a tailor made solution for almost any application in accordance with the application requirements. Refer to the charts for sensor recommendations.



+ Paddlewheel Flow

- 515
- 525
- 2536
- 2537
- 2540



+ Rotor/Turbine Flow

- 2000
- 2507
- 2100



+ Magmeter Flow

- 2551
- 2552



+ FlowtraMag Meter

- 2580



+ Ultrasonic Flow

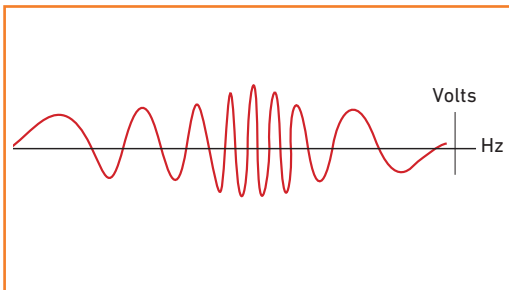
- U1000
- U3000/4000
- 220/330

| | Paddlewheel | Ultrasonic | Turbine | Magmeter |
|------------------------------|-------------|------------|---------|----------|
| Industrial | | | | |
| Ultra-Pure | | X | | |
| DI Water | X | X | X | |
| Tap Water | X | X | X | X |
| Brackish Water | X | | X | X |
| Sea Water | X | | | X |
| Brine Water | X | | | X |
| Conductive | X | X | | X |
| Chemical Contaminants | | | | |
| Organics | X | X | X | X |
| Corrosives | X | | | X |
| Chemical Transport | X | X | X | X |
| Batch/Mix | X | X | X | |
| Waste Water | | | | |
| Particles | X | | | X |
| Fibers | | | | X |
| Municipal | | | | |
| Drinking | X | X | X | X |
| Wastewater | X | | | X |

Measuring Principles

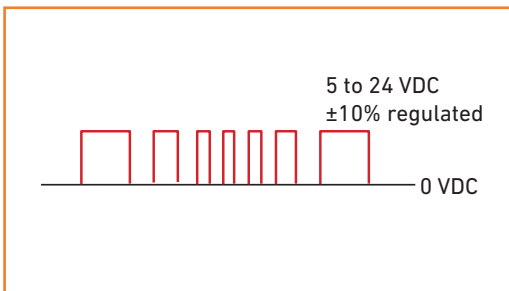
GF flow sensors have a variety of measurement types to fit your needs

All GF flow sensors belong to the broad category of velocity-based flow measurement devices. Here is a general overview. Principles of operation vary considerably. Choose the appropriate sensor for optimal flow measurement results.



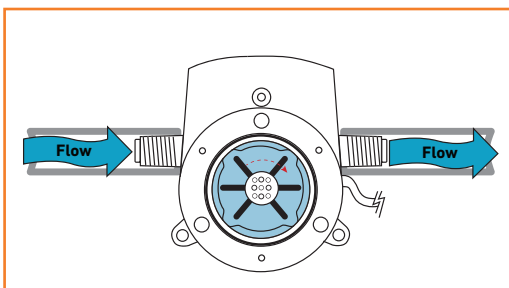
+ Sine Wave Frequency Output Measurements

- 515 Sinusoidal sensors produce a signal typical of self generating, non-powered paddlewheel sensors. The frequency and amplitude (voltage) both vary directly with flow rate.
- 525



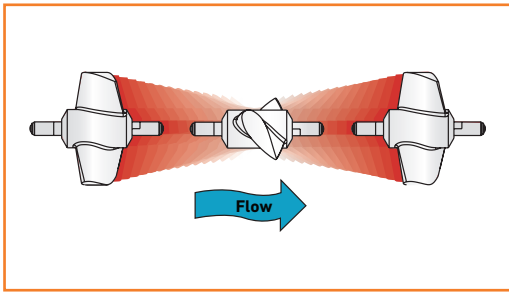
+ Open Collector Frequency Output Measurements

- 2536 Open Collector sensors produce a transistor-type square wave typical of powered flow sensors with frequency output.
- 2540
- 2000
- 2100
- 2507
- 2537



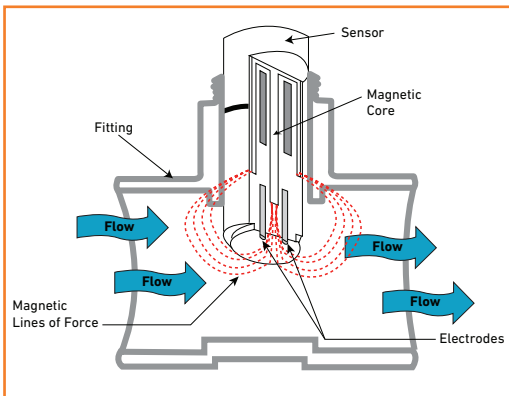
+ In-Line Rotor Flow Rate Measurements

- 2000 In-line rotor type sensors produce a transistor-type square wave output signal. Positioned in the flow cell, they are able to measure lower flow rates.
- 2507



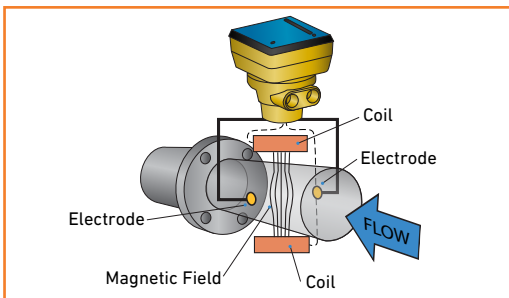
+ Turbine Flow Rate Measurements

- 2100 Turbine flow sensors are full-bore devices designed for low flow measurements. Similar to paddlewheels, they rely on the energy in the flow stream to spin a rotor (turbine). The difference is the shaft is in the center of, and parallel to, the flow stream. The velocity of the liquid spins the turbine for detection by external electronic circuitry, producing a transistor-type square wave with a frequency directly proportional to the flow rate.



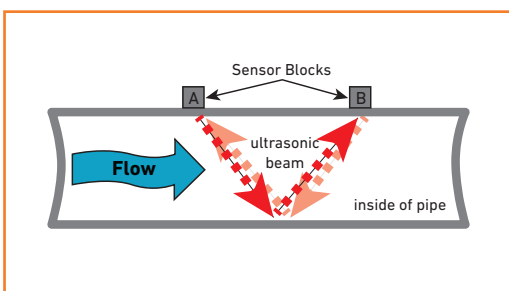
+ Magnetic Inductive Flow Rate Measurements

- 2551
 - 2552
- Electromagnetic flow sensors operate on Faraday's principle of electromagnetic induction, and have no moving parts. As a conductive fluid ($>20\mu\text{S}$) moves through the magnetic field produced at the sensor tip, a voltage occurs that is directly proportional to the fluid velocity. Internal electronics then convert this voltage to a frequency and/or 4 to 20 mA output.



+ Magnetic Inductive Flow Rate Measurements, FlowtraMag Meter

- 2580
- In the 2580, the Magnetic flowmeters operate under the principles of Faraday's Law/Lorentz Force of electromagnetic induction to determine the flow of liquid in a pipe. The coil that creates the magnetic field and the sensing electrodes never touch the process liquid.



+ Ultrasonic Clamp-on Flow Rate Measurements

- U1000
 - U3000
 - U4000
 - PF220
 - PF330
- Ultrasonic flow meters work on the basis of the Transit Time principle of ultrasonic sound in liquid media. Two transducers send and receive ultrasonic bursts into the pipe up and down stream the of flow. Depending on the flow velocity there is a noticeable time difference between the up and down stream signal. The difference is proportional to the actual flow rate.

Performance Data



515 Paddlewheel Flow Sensor



Specifications

| | | |
|-----------------------|---|------------------------|
| Sensor type | 515 insertion paddlewheel | |
| Operating range m/s | 0.3 - 6 m/s | |
| Accuracy | N/A | |
| Repeatability | ± 0.5% of max. range | |
| Linearity | ± 1% of max. range | |
| Frequency | 19.7 Hz per m/s nominal | |
| Pipe size range | 0.5 in. - 36 in. | |
| Supply voltage | None | |
| Source impedance | 8 KΩ | |
| Sensor body | PP, PVDF | |
| Rotor | PVDF, ETFE | |
| Rotor pin | Titanium, Hastelloy-C, Natural PVDF, Ceramic, Stainless Steel, Tantalum | |
| O-ring | FKM, EPDM, FFKM | |
| Operating temperature | PP: -18 °C - 90 °C PVDF: -18 °C - 100 °C | |
| Operating pressure | PP: 12.5 bar @ 20 °C | PVDF: 14 bar @ 20 °C |
| | PP: 1.7 bar @ 90 °C | PVDF: 1.4 bar @ 100 °C |
| Output | AC frequency | |
| Approvals | RoHS compliant, China RoHS, Lloyd's Register, NSF (-PX version only) | |

2536 Paddlewheel Flow Sensor



Specifications

| | | |
|-----------------------|---|--|
| Sensor type | 2536 insertion paddlewheel | |
| Operating range m/s | 0.1 - 6 m/s | |
| Accuracy | N/A | |
| Repeatability | ± 0.5% of max. range | |
| Linearity | ± 1% of max. range | |
| Frequency | 49 Hz per m/s nominal | |
| Pipe size range | 0.5 in. - 36 in. | |
| Supply voltage | 5 - 24 VDC | |
| Sensor body | PP, PVDF, PVC | |
| Rotor | PVDF, ETFE, PVC | |
| Rotor pin | Titanium, Hastelloy-C, Natural PVDF, Ceramic, Stainless Steel, Tantalum | |
| O-ring | FKM, EPDM, FFKM | |
| Operating temperature | PP: -18 °C - 85 °C PVC: 0 °C - 60 °C PVDF: -18 °C - 85 °C | |
| Operating pressure | PP: 12.5 bar @ 20 °C | |
| | PP: 1.7 bar @ 85 °C | |
| | PVC: 12.5 bar @ 20 °C | |
| | PVC: 6.9 bar @ 60 °C | |
| | PVDF: 14 bar @ 20 °C | |
| | PVDF: 1.7 bar @ 85 °C | |
| Approvals | CE, FCC, NSF (3-2536-PX only) | |

525 Paddlewheel Flow Sensor



| Specifications | |
|-----------------------|---------------------------------------|
| Sensor type | 525 insertion paddlewheel |
| Operating range m/s | 0.5 - 6 m/s |
| Accuracy | N/A |
| Repeatability | ± 0.5% of max range |
| Linearity | ± 1% of max range |
| Frequency | 39 Hz per m/s nominal |
| Pipe size range | 0.5 in. - 12 in. |
| Supply voltage | None |
| Source impedance | 11.6 KΩ |
| Sensor body | SS 316 |
| Rotor | 17-4PH-1 Stainless Steel |
| Rotor pin | Tungsten Carbide, Stainless Steel 316 |
| Operating temperature | -18 °C - 149 °C |
| Operating pressure | 103 bar @ 149 °C |
| Approvals | RoHS compliant, China RoHS |

2537 Paddlewheel Flow Sensor



| Specifications | |
|-----------------------|---|
| Sensor type | 2537 insertion paddlewheel |
| Operating range m/s | 0.1 - 6 m/s |
| Accuracy | N/A |
| Repeatability | ± 0.5% of max. range |
| Linearity | ± 1% of max. range |
| Frequency | N/A |
| Pipe size range | 0.5 in. - 8 in. |
| Supply voltage | 5 - 24 VDC |
| Sensor body | PP, PVDF |
| Rotor | PVDF, ETFE |
| Rotor pin | Titanium, Hastelloy-C, Natural PVDF, Ceramic, Stainless Steel, Tantalum |
| O-ring | FKM, EPDM, FFKM |
| Other | N/A |
| Operating temperature | PP: -18 °C - 90 °C PVDF: -18 °C - 100 °C |
| Operating pressure | PP: 12.5 bar @ 20 °C PP: 1.7 bar @ 90 °C PVDF: 14 bar @ 20 °C PVDF: 1.4 bar @ 100 °C |
| Output | Open collector, 4 to 20 mA, digital (S ³ L), DCR relay, SSR relay |
| Approvals | CE, FCC, UL, NSF (3-2537-XC-PX version only) |

2540 Paddlewheel Flow Sensor



| Specifications | |
|-----------------------|---------------------------------------|
| Sensor type | 2540 (insertion paddlewheel) |
| Operating range m/s | 0.1 - 6 m/s |
| Accuracy | N/A |
| Repeatability | ± 0.5% of max. range |
| Linearity | ± 1% of max. range |
| Frequency | 49 Hz per m/s nominal |
| Pipe size range | 1.5 in. - 36 in. |
| Supply voltage | 5 - 24 VDC |
| Sensor body | SS 316 |
| Rotor | 17-4PH-1 Stainless Steel |
| Rotor pin | Tungsten Carbide, Stainless Steel 316 |
| O-ring | FKM, EPDM |
| Other | Carbon fiber reinforced PTFE bearing |
| Operating temperature | -18 °C - 100 °C |
| Operating pressure | 17 bar @ 100 °C |
| Output | Open collector |
| Approvals | CE, FCC, RoHS compliant, China RoHS |

2551 Magmeter



Additional features:

- Empty pipe detection
- Bi-directional
- Relay
- Multi-language display version
- Min. conductivity 20 uS/cm

| Specifications | |
|-----------------------|---|
| Sensor type | 2551 Insertion magmeter |
| Operating range m/s | 0.05 - 10 m/s |
| Accuracy | N/A |
| Repeatability | ± 0.5% of reading |
| Linearity | ± 1% of reading |
| Pipe size range | 0.5 in. - 36 in. |
| Supply voltage | 5 - 24 VDC |
| Sensor body | PP, PVDF |
| Other | SS 316L, Hastelloy-C, Titanium |
| Operating temperature | Ambient -10 °C - 70 °C Media 0 °C - 85 °C |
| Operating pressure | 10.3 bar @ 25 °C 1.4 bar @ 85 °C |
| Output | Frequency, digital (S ³ L), 4 to 20 mA |
| Approvals | CE, UL, CUL, RoHS compliant |

2552 Metal Magmeter



Additional features:

- Empty pipe detection
- Bi-directional
- Min. conductivity 20 uS/cm

Specifications

| | |
|-----------------------|---|
| Sensor type | 2552 Insertion magmeter |
| Operating range m/s | 0.05 - 10 m/s |
| Accuracy | ± 2% of measured value |
| Repeatability | ± 0.5% of reading |
| Linearity | ± 1% of reading |
| Frequency | 5 to 6.5 VDC 15 mA maximum |
| Pipe size range | 2 in. - 102 in. |
| Supply voltage | 5 - 24 VDC |
| Sensor body | SS 316L |
| Other | PVDF |
| Operating temperature | Ambient -15 °C - 70 °C Media -15 °C - 85 °C |
| Operating pressure | 20.7 bar @ 25 °C |
| Output | Frequency, digital (S ³ L), 4 to 20 mA |
| Approvals | CE, RoHS compliant |

2580 FlowtraMag Meter



Additional features:

- Bluetooth® (Supports iOS and Android)
- Reverse Flow direction
- Partially filled pipe detection
- Visual LED indicators make sensor status clear and easy to read

Specifications

| | |
|----------------------------|--|
| Sensor type | 2580 full-bore In-line magnetic flow meter |
| Operating range m/s | 0.02 to 10 m/s (0.07 to 33 ft/s) |
| Accuracy | ± 1% of reading plus ± 0.01 m/s (0.033 ft/s), reference condition 50 µS/cm and water based |
| Repeatability | ± 0.5% of reading @ 25 °C (77 °F) |
| Low Flow Cutoff | 0.02 m/s (0.07 ft/s) (adjustable via 0252 Configuration Tool or GF Config Tool App) |
| Frequency | 5 to 24 VDC, 50 mA max. |
| Pipe size range | 1 in., 2 in., 4 in. (ASTM only) |
| Max. Pull-up Voltage | 30 VDC, 10k pull-up recommended |
| Flow Tube body | PVC |
| Operating temperature | Ambient -10 °C to 60 °C Media 0 °C to 60 °C |
| Maximum operating pressure | 10 bar @ 23 °C |
| Output | Frequency, digital (S ³ L), 4 to 20 mA |
| Approvals | CE, FCC, NSF pending, UL, CUL Recognized Component, RoHS compliant, China RoHS |

2000 Micro Flow Sensor



Additional features:

- Lowest flow range 110 mL/min.
- PPS body for tough service
- Good chemical resistance

Specifications

| | |
|-----------------------|--------------------|
| Sensor type | 2000 In-line rotor |
| Operating range m/s | 0.11 to 12.11 l/m |
| Accuracy | N/A |
| Pipe size range | ¼ in. tubing |
| Supply voltage | 5 - 24 VDC |
| Sensor body | PPS |
| Rotor | PEEK™ |
| O-ring | FKM |
| Operating temperature | 0 °C to 80 °C |
| Operating pressure | 80 psi |
| Output | Open collector |

2507 Micro Flow Sensor



Additional features:

- Detachable signal connector
- Replacement inserts for different flow ranges
- Good chemical resistance

Specifications

| | |
|-----------------------|-------------------------------------|
| Sensor type | 2507 In-line rotor |
| Operating range m/s | 0.4 to 12.0 l/m |
| Accuracy | ± 2.0% of reading |
| Repeatability | ± 0.25% of full range |
| Pipe size range | ¼ in. tubing |
| Supply voltage | 5 - 24 VDC |
| Sensor body | PVDF |
| Rotor | PVDF |
| O-ring | FKM |
| Operating temperature | -30 °C to 120 °C |
| Operating pressure | 80 psi |
| Output | Open collector |
| Approvals | CE, FCC, RoHS compliant, China RoHS |

2100 Turbine Flow Sensor



| Specifications | |
|-----------------------|-------------------------------------|
| Sensor type | 2100 In-line turbine |
| Operating range m/s | 0.38 to 38.0 l/m |
| Accuracy | ± 3% of reading |
| Repeatability | ± 0.5% of reading |
| Pipe size range | ¼", ¾", 1½" (tubing), ½" (piping) |
| Supply voltage | 5 ~ 24 VDC |
| Sensor body | PVDF |
| Rotor | PVDF |
| O-ring | FKM, EPDM |
| Other | Ceramic bearing |
| Operating temperature | -20 °C to 70 °C |
| Operating pressure | 130 psi |
| Output | Open collector |
| Approvals | CE, FCC, RoHS compliant, China RoHS |

U1000 V2 Ultrasonic Flowmeter



Additional features:
- Bi-directional

| Specifications | |
|-----------------------|---|
| Sensor type | U1000 Ultrasonic Clamp-on |
| Operating range m/s | 0.1 m/s – 10 m/s, bi-directional |
| Accuracy | ± 3 % of the flow value with a flow rate > 0.3 m/s (1.0 ft/s) |
| Repeatability | ±0.5 % of measured value |
| Pipe size range | ¾ in. to 6 in. |
| Supply voltage | 12 to 24 VAC or DC |
| Enclosure material | Polycarbonate |
| Keypad | Keypad with 4 buttons |
| Operating temperature | 0 °C to 50 °C |
| Operating humidity | Max. 90% relative humidity @ 50 °C |
| Output | Analog, Pulse output |
| Approvals | CE, Conforms to RoHS |

U3000/U4000 Ultraflow Ultrasonic Flow Sensor



Additional features:
- Datalogger 198K data points

| Specifications | |
|-----------------------|--|
| Sensor type | U3000-4000 Ultrasonic Clamp-on |
| Operating range m/s | 0.1 ~ 20 m/s |
| Accuracy | ±0.5% to ±3% of flow reading for Pipe ID >75 mm ±3% of flow reading Pipe ID 13 mm - 75 mm |
| Repeatability | ±0.5% of measured value or ±0.2 m/s whichever is greater |
| Pipe size range | 0.5 in. - 78 in. |
| Supply voltage | 12 - 24 VAC or DC; 86 - 264 VAC |
| Operating temperature | -20 °C to 50 °C |
| Pipe wall temperature | -20 °C to 135 °C |
| Operating humidity | Max. 90% relative humidity @ 50 °C |
| Output | 4 to 20 mA, 0 to 20 mA, 0 to 16 mA, Pulse output, 2 Alarm outputs |
| Approvals | CE |

220/330 Portaflow Portable Ultrasonic Flow Sensor



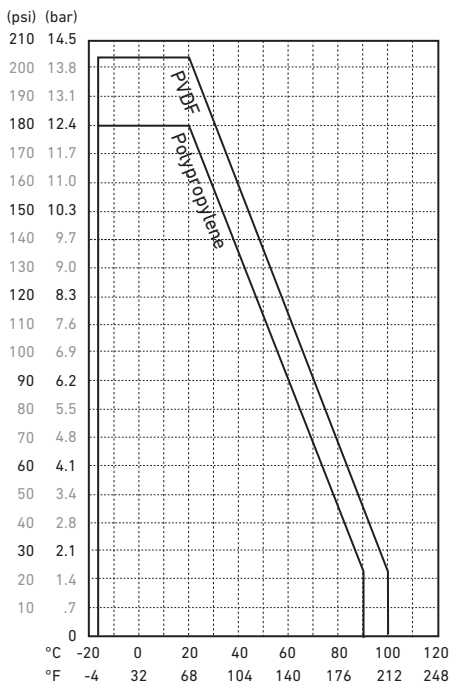
| Specifications | |
|-------------------------|--|
| Sensor type | 220/330 Ultrasonic Clamp-on |
| Operating range m/s | 0.1 ~ 20 m/s |
| Accuracy | ±0.5% to ±3% of flow reading for Pipe ID >75 mm ±3% of flow reading Pipe ID 13 mm - 75 mm |
| Repeatability | ±0.5% of measured value or ±0.2 m/s whichever is greater |
| Pipe size range | 13 mm to 2000 mm OD |
| Supply voltage | Battery power |
| Enclosure material | ABS and aluminium |
| Operating temperature | -20 °C to 50 °C |
| Pipe wall temperature | -20 °C to 135 °C |
| Output | Analog, Pulse output, USB, RS232 |
| Approvals - Electrical | UL, CUL, TUV, CB, CE |
| Approvals - Data logger | CE, RoHS compliant |

Temperature/ Pressure Graphs

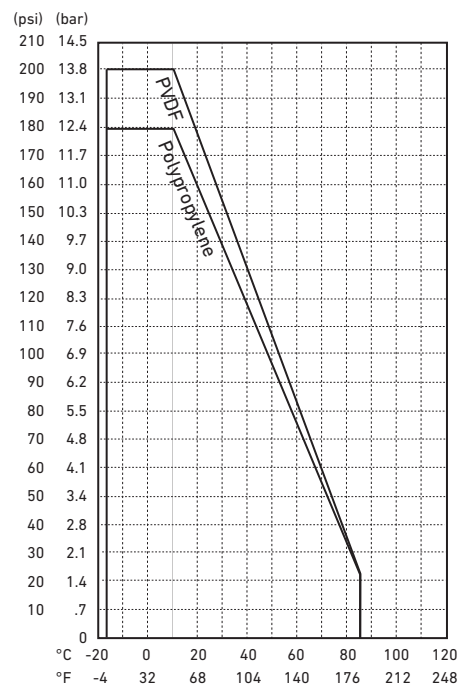
Note:

The pressure/temperature graphs are specifically for the Signet sensor. During system design the specifications of all components must be considered. In the case of a metal piping system, a plastic sensor will reduce the system specification. When using a PVDF sensor in a PVC piping system, the fitting will reduce the system specification.

515 Paddlewheel Flow Sensor

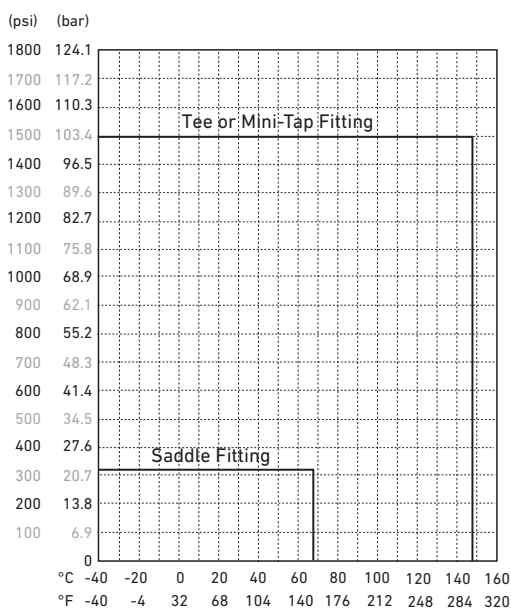


2536 & 2537 Paddlewheel Flow Sensor

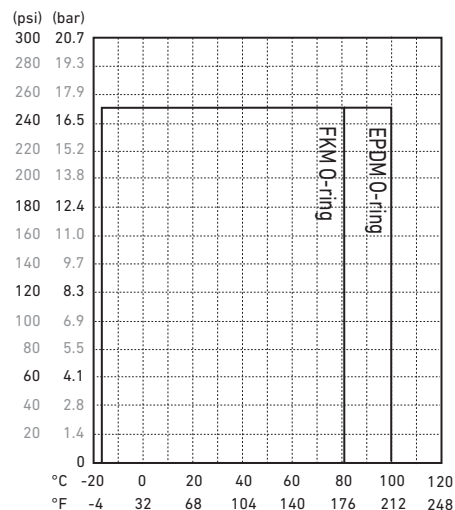


*2537 Only: Graph applies to wetted materials (sensor) only. Maximum ambient temperature is 65°C.

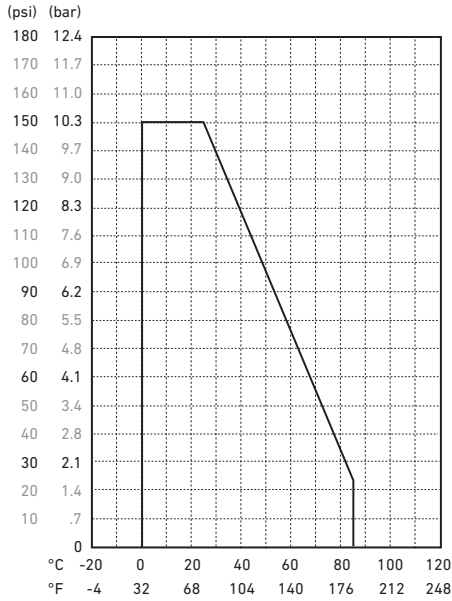
525 Paddlewheel Flow Sensor



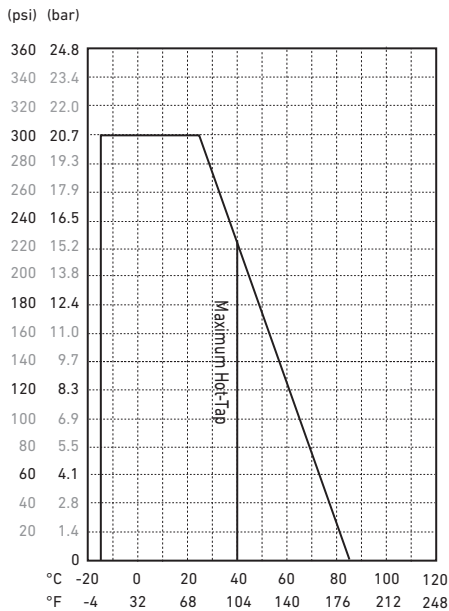
2540 Paddlewheel Flow Sensor



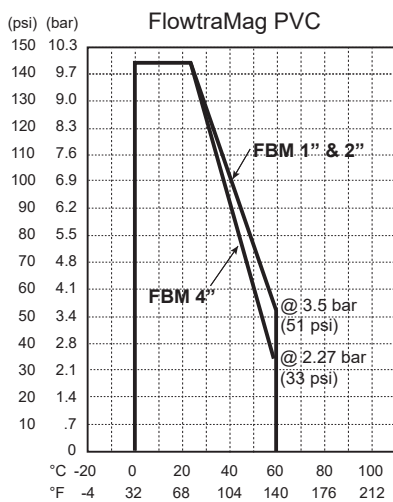
2551 Magmeter



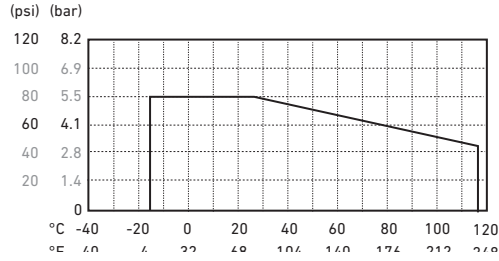
2552 Metal Magmeter



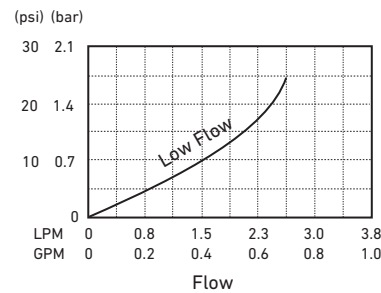
2580 FlowtraMag Meter



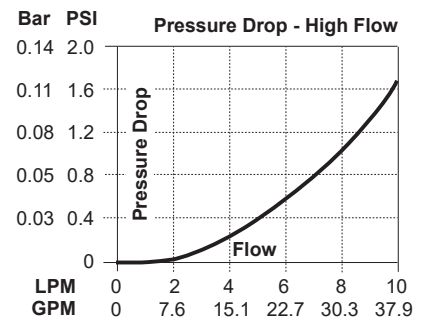
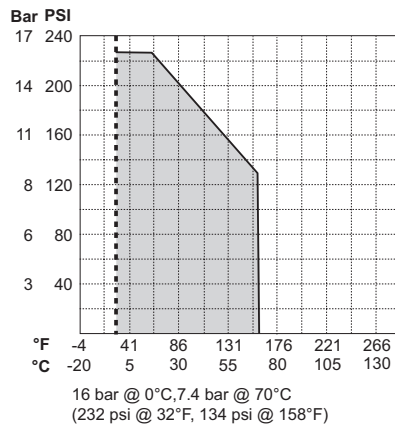
2507 Micro Flow Sensor



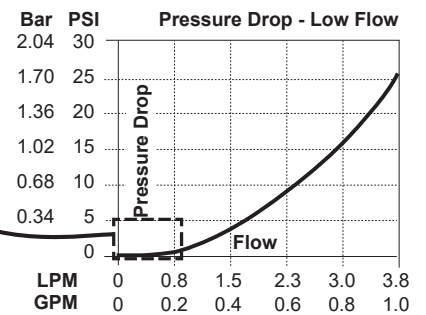
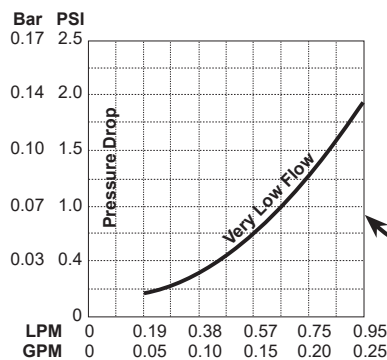
2000 Micro Flow Sensor Pressure Drop - Low Flow



2100 Turbine Flow Sensor



Low Flow



Flow Range Charts

Paddlewheel and Electromagnetic Sensors - GPM

Signet Models 515, 525, 2536, 2537, 2540, 2551, 2552, 2580
GPM Flow Rates for DN15 to DN450 (½ in. to 18 in.) pipe sizes

| Nominal Pipe Size | | 2551/2552 | | 2536/8512/ 2537/2540 | | 515 and 8510 | | 525 | | 2580 | |
|-------------------|----------------|-----------|----------|-------------------------|----------|--------------|----------|----------|---------|-----------|---------|
| Inch | Metric DN (mm) | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max |
| | | 0.15 ft/s | 33 ft/s | 0.3 ft/s | 20 ft/s | 1 ft/s | 20 ft/s | 1.6 ft/s | 20 ft/s | 0.07 ft/s | 33 ft/s |
| 0.25 | 8 | - | - | - | - | - | - | - | - | - | - |
| 0.5 | 15 | 0.14 | 31.25 | 0.28 | 18.94 | 0.95 | 18.94 | 1.52 | 18.94 | - | - |
| 0.75 | 20 | 0.25 | 54.85 | 0.50 | 33.24 | 1.66 | 33.24 | 2.66 | 33.24 | - | - |
| 1 | 25 | 0.40 | 88.89 | 0.81 | 53.88 | 2.69 | 53.88 | 4.31 | 53.88 | 0.14 | 70.36 |
| 1.25 | 32 | 0.70 | 153.84 | 1.40 | 93.24 | 4.66 | 93.24 | 7.46 | 93.24 | - | - |
| 1.5 | 40 | 0.95 | 209.40 | 1.90 | 126.91 | 6.35 | 126.91 | 10.15 | 126.91 | - | - |
| 2 | 50 | 1.57 | 345.15 | 3.14 | 209.18 | 10.46 | 209.18 | 16.73 | 209.18 | 0.59 | 293.92 |
| 2.5 | 65 | 2.24 | 492.45 | 4.48 | 298.46 | 14.92 | 298.46 | 23.88 | 298.46 | - | - |
| 3 | 80 | 3.46 | 760.39 | 6.91 | 460.84 | 23.04 | 460.84 | 36.87 | 460.84 | - | - |
| 4 | 100 | 5.95 | 1309.40 | 11.90 | 793.57 | 39.68 | 793.57 | 63.49 | 793.57 | 2.30 | 1151.22 |
| 5 | 125 | 9.35 | 2057.74 | 18.71 | 1247.12 | 62.36 | 1247.12 | 99.77 | 1247.12 | - | - |
| 6 | 150 | 13.51 | 2971.57 | 27.01 | 1800.95 | 90.05 | 1800.95 | 144.08 | 1800.95 | - | - |
| 8 | 200 | 23.39 | 5145.63 | 46.78 | 3118.57 | 155.93 | 3118.57 | 249.49 | 3118.57 | - | - |
| 10 | 250 | 36.87 | 8110.73 | 73.73 | 4915.59 | 245.78 | 4915.59 | 393.25 | 4915.59 | - | - |
| 12 | 300 | 52.33 | 11512.97 | 104.66 | 6977.56 | 348.88 | 6977.56 | 558.20 | 6977.56 | - | - |
| 14 | 350 | - | - | 126.49 | 8432.82 | 421.64 | 8432.82 | - | - | - | - |
| 16 | 400 | - | - | 165.24 | 11015.97 | 550.80 | 11015.97 | - | - | - | - |
| 18 | 450 | - | - | 209.16 | 13943.74 | 697.19 | 13943.74 | - | - | - | - |

Electromagnetic Sensors -GPM, LPM

Signet Models 2580

| Model No. | K-Factor pulse/L | K-Factor pulse/G | Flow Rate @ 20 mA LPM | Flow Rate @ 20 mA GPM |
|------------------------------|------------------|------------------|-----------------------|-----------------------|
| 2580 FlowtraMag Meter | | | | |
| 3-2580-P-T-010 | 225.264 | 852.716 | 266.35 | 70.363 |
| 3-2580-P-T-020 | 53.9278 | 204.139 | 1112.6 | 293.92 |
| 3-2580-P-T-040 | 13.7683 | 52.1188 | 4357.8 | 1151.2 |

Paddlewheel and Electromagnetic Sensors - LPM

Signet Models 515, 525, 2536, 2537, 2540, 2551, 2552, 2580
LPM Flow Rates for DN15 to DN450 (½ in. to 18 in.) pipe sizes

| Nominal Pipe Size | | 2551/2552 | | 2536/8512/ 2537/2540 | | 515 and 8510 | | 525 | | 2580 | |
|-------------------|----------------|-----------|---------|-------------------------|---------|--------------|---------|---------|---------|------|---------|
| Inch | Metric DN (mm) | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max |
| | | 0.05 m/s | 10 m/s | 0.1 m/s | 6 m/s | 0.3 m/s | 6 m/s | 0.5 m/s | 6 m/s | | |
| 0.25 | - | - | - | - | - | - | - | - | - | - | - |
| 0.5 | 15 | 0.6 | 117.6 | 1.2 | 70.6 | 3.5 | 70.6 | 5.9 | 70.6 | - | - |
| 0.75 | 20 | 1.0 | 206.4 | 2.1 | 123.9 | 6.2 | 123.9 | 10.3 | 123.9 | - | - |
| 1 | 25 | 1.7 | 334.5 | 3.3 | 200.7 | 10.0 | 200.7 | 16.7 | 200.7 | 0.53 | 266.35 |
| 1.25 | 32 | 2.9 | 579.0 | 5.8 | 347.4 | 17.4 | 347.4 | 28.9 | 347.4 | - | - |
| 1.5 | 40 | 3.9 | 788.1 | 7.9 | 472.8 | 23.6 | 472.8 | 39.4 | 472.8 | - | - |
| 2 | 50 | 6.5 | 1298.9 | 13.0 | 779.4 | 39.0 | 779.4 | 64.9 | 779.4 | 2.23 | 1112.60 |
| 2.5 | 65 | 9.3 | 1853.3 | 18.5 | 1112.0 | 55.6 | 1112.0 | 92.7 | 1112.0 | - | - |
| 3 | 80 | 14.3 | 2861.7 | 28.6 | 1717.0 | 85.9 | 1717.0 | 143.1 | 1717.0 | - | - |
| 4 | 100 | 24.6 | 4927.8 | 49.3 | 2956.7 | 147.8 | 2956.7 | 246.4 | 2956.7 | 8.72 | 4357.83 |
| 5 | 125 | 38.7 | 7744.2 | 77.4 | 4646.5 | 232.3 | 4646.5 | 387.2 | 4646.5 | - | - |
| 6 | 150 | 55.9 | 11183.3 | 111.8 | 6710.0 | 335.5 | 6710.0 | 559.2 | 6710.0 | - | - |
| 8 | 200 | 96.8 | 19365.3 | 193.7 | 11619.2 | 581.0 | 11619.2 | 968.3 | 11619.2 | - | - |
| 10 | 250 | 152.6 | 30524.2 | 305.2 | 18314.5 | 915.7 | 18314.5 | 1526.2 | 18314.5 | - | - |
| 12 | 300 | 216.6 | 43328.4 | 433.3 | 25997.0 | 1299.9 | 25997.0 | 2166.4 | 25997.0 | - | - |
| 14 | 350 | - | - | 523.7 | 31419.1 | 1571.0 | 31419.1 | - | - | - | - |
| 16 | 400 | - | - | 684.1 | 41043.4 | 2052.2 | 41043.4 | - | - | - | - |
| 18 | 450 | - | - | 865.9 | 51951.7 | 2597.6 | 51951.7 | - | - | - | - |

In-line Rotor and Turbine Sensors - GPM/LPM

Signet Models 2000, 2100, and 2507
GPM and LPM Flow Rates

| Model and Size | Description | GPM | | LPM | |
|---------------------------------|----------------------------|-------|--------|-------|--------|
| | | Min | Max | Min | Max |
| 3-2000-1X | Micro Flow - Low | 0.030 | 0.700 | 0.110 | 2.600 |
| 3-2000-2X | Micro Flow - High | 0.300 | 3.200 | 1.130 | 12.110 |
| 3-2100-XL and -31 Kits | Turbine Low - 1/2" Tubing | 0.100 | 1.000 | 0.380 | 3.800 |
| 3-2100-XL and -32 Kits | Turbine Low - 3/8" Tubing | 0.100 | 1.000 | 0.380 | 3.800 |
| 3-2100-XL and -33 Kits | Turbine Low - 1/4" Tubing | 0.100 | 1.000 | 0.380 | 3.800 |
| 3-2100-XL and -34 thru -38 Kits | Turbine Low - 1/2" Pipe | 0.100 | 1.000 | 0.380 | 3.800 |
| 3-2100-XH and -31 kits | Turbine High - 1/2" Tubing | 0.800 | 10.000 | 3.000 | 38.000 |
| 3-2100-XH and -34 thru -38 Kits | Turbine High - 1/2" Pipe | 0.800 | 10.000 | 3.000 | 38.000 |
| 3-2507.100-2V | Mini Flow - 2 mm Insert | 0.106 | 0.740 | 0.500 | 2.800 |
| 3-2507.100-3V | Mini Flow - 3 mm Insert | 0.198 | 1.123 | 0.750 | 4.250 |
| 3-2507.100-4V | Mini Flow - 4 mm Insert | 0.330 | 1.585 | 1.250 | 6.000 |
| 3-2507.100-6V | Mini Flow - 6 mm Insert | 0.792 | 3.170 | 3.000 | 12.000 |

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