

FLOWSTAT ES TURBINE FLOW SENSOR

Ideal for monitoring various fluids in applications such as chillers/cooling circuits, HVAC, batching and industrial process control applications.



TECHNICAL SPECIFICATIONS

Measuring Accuracy
2% of full-scale

Repeatability
±0.5% of full-scale

Flow Measuring Range
0.5-15 GPM (2-60 LPM)
With optional low-flow adapter:
.25-4.5 GPM (1-17 LPM)

Turn Down Ratio
10:1

Maximum Operating Pressure
150 PSIG

Maximum Operating Temperature
20-150°F

Standard Calibration Fluid
Tap water @ 70°F Temperature (21°C),
1.0 sg

Filtration Requirement
150 Micron Filter recommended

MATERIALS OF CONSTRUCTION

| Wetted Components | | Non-Wetted Components | |
|-------------------|-----------------------------------|-----------------------|----------------------------|
| Component | Materials | Component | Materials |
| Casing | Glass-Filled Polypropylene | Encapsulant | Epoxy |
| Cover | Clear Polycarbonate | Strain Relief | Nylon |
| Seal | Buna-N® (Other options available) | Lock Ring | Glass-Filled Polypropylene |
| Impeller | Acetal Copolymer | Wire Insulation | High-Temperature PVC |
| Bearing | PEEK (Polyetheretherketone) | | |
| Shaft | Stainless Steel | | |

Buna-N is a registered trademark of Chemische Werke Huls.

BENEFITS

Value Pricing

Low cost operation combined with low cost maintenance, equals better bottom line savings for your operation.

Encapsulated Circuitry

Withstands the harshest environments.

Several Outputs Available

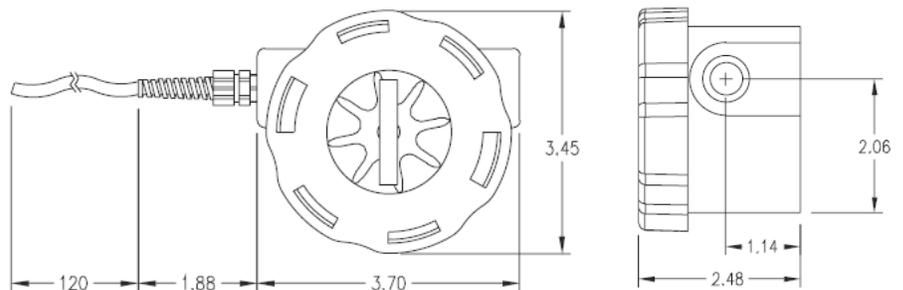
The standard interface is a 2-wire, 4-20mA current loop. Sensor signal may be transmitted on a low cost wire without degradation. Pulse, relay and 0-5 VDC (regulated) are also available.

Connects Directly to your Flow Monitoring Instruments

Can be connected directly to analog acquisition cards, chart recorders or other monitoring instruments, without external signal conditioning.

Simply Plumb and Apply Power

Comes factory calibrated to your flow range specifications.

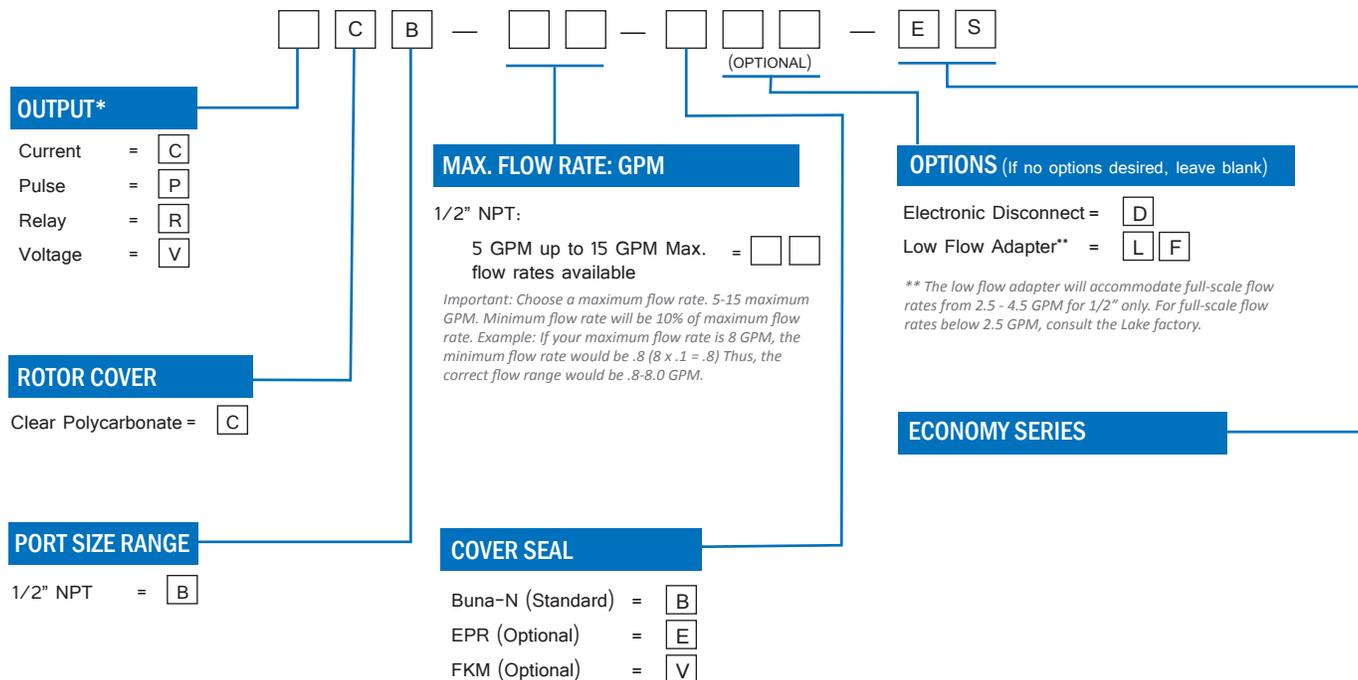


Measurements shown in inches.

FLOWSTAT ES TURBINE FLOW SENSOR

Ideal for monitoring various fluids in applications such as chillers/cooling circuits, HVAC, batching and industrial process control applications.

PART NUMBER GUIDE



ELECTRONIC SPECIFICATIONS

| 4-20 mA version | |
|-------------------------------|---|
| Power Requirements | 12-24 VDC, Regulated, Loop powered |
| Load driving capacity | Use the following equation to calculate maximum load resistance: Max Loop Load (Ω) = 50 (Power supply volts - 12). |
| Maximum Transmission Distance | Limited only by wire resistance & supply voltage |
| Response time | 2 seconds to 90% (step change) |
| Resolution | Infinite |
| Over-current limit | Self limiting at 35 mA |
| Other protection | Reverse polarity |

| 0-5 VDC (regulated) version | |
|-------------------------------|----------------------------------|
| Power Requirements | 12-24 VDC, Regulated |
| Maximum Current | 25 mA DC, Regulated |
| Minimum Load resistance | 1000 Ohms |
| Maximum Transmission Distance | 200 feet recommended |
| Resolution | Infinite |
| Response time | < 5 seconds to 90% (step change) |

| Relay Output | |
|-------------------------------|-------------------------------|
| Power Requirements | 12-24 VDC, Regulated |
| Maximum Transmission Distance | 200 feet recommended |
| Switch Contact | Form C, 5A max 120 or 240 VAC |
| Set Point Repeatability | 1% of full scale |

| Pulse Output Version | |
|-------------------------------|----------------------------------|
| Power Requirements | 12-24 VDC, Regulated |
| Response Time | <100 ms |
| Maximum Current | 25 mA DC, Regulated |
| Maximum Transmission Distance | 200 feet recommended |
| Minimum Load Resistance | 1000 Ohms |
| Protection | Short circuit & reverse polarity |

