

# 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

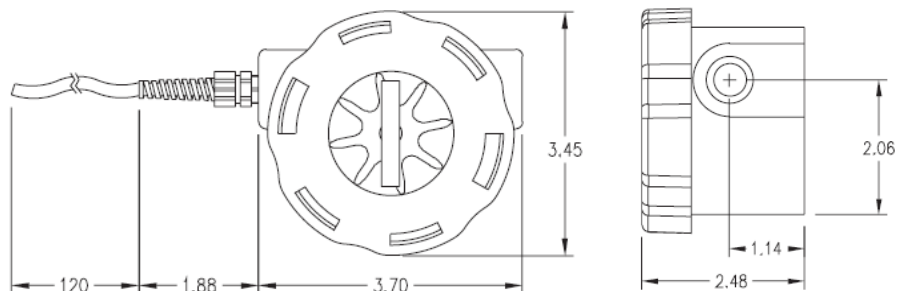
The standard interface is a 2-wire, 4-20mA current loop. Sensor signal may be transmitted on a low cost wire without degradation. Pulse, relay and 0-5 VDC (regulated) are also available.

### 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.

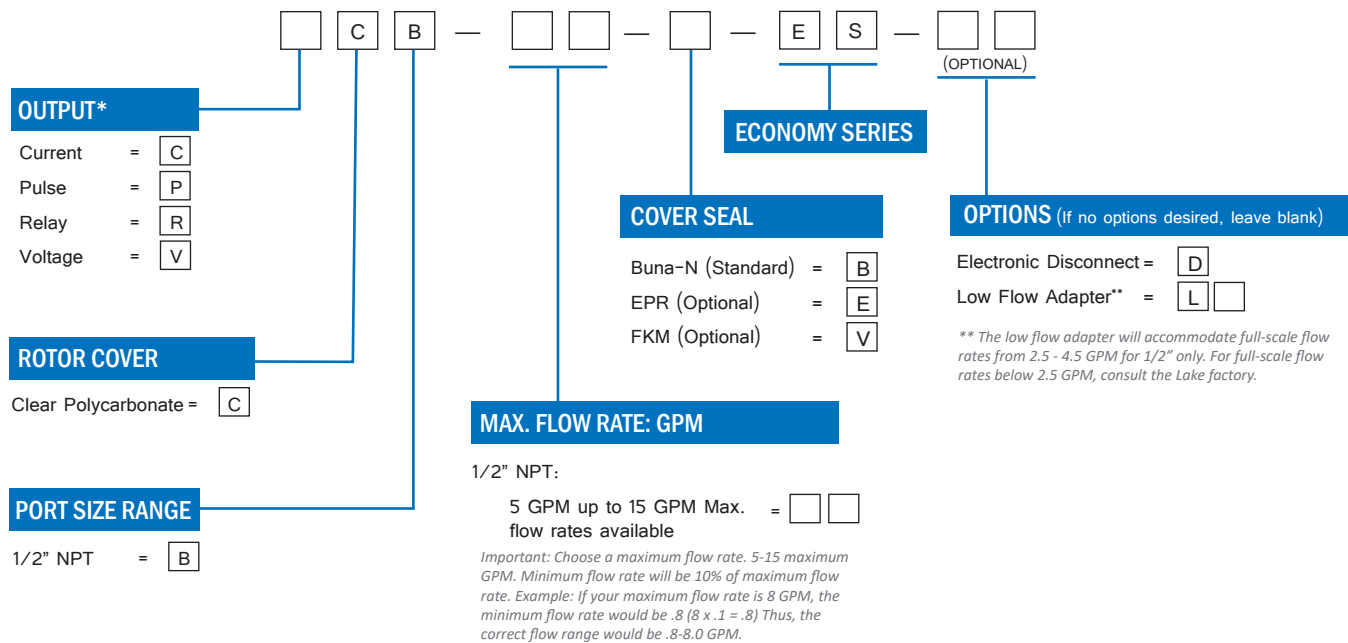


*Measurements shown in inches.*

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## 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 ( $\Omega$ ) = 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

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

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)

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

Products may be subject to change without notice - Contact factory for the most up-to-date product information.