# 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 5-15 GPM (20-60 LPM) With optional low-flow adapter: 2.5-4.5 GPM (10-17 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

# **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

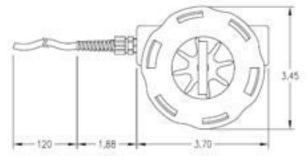
Comes factory calibrated to your flow range specifications.

## MATERIALS OF CONSTRUCTION

Wetted Components	
Component	Materials
Casing	Glass-Filled Polypropylene
Cover	Clear Polycarbonate
Seal	Buna-N <sup>®</sup> (Other options available)
Impeller	Acetal Copolymer
Bearing	PEEK (Polyetheretherketone)
Shaft	Stainless Steel

Non-Wetted Components	
Component	Materials
Encapsulant	Ероху
Strain Relief	Nylon
Lock Ring	Glass-Filled Polypropylene
Wire Insulation	High-Temperature PVC

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



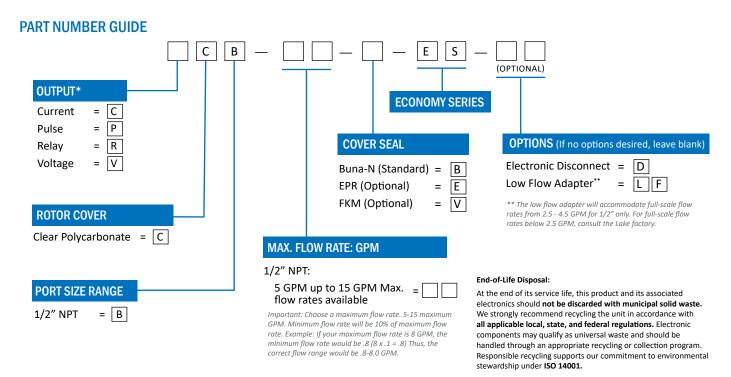


Measurements shown in inches.



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## **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.

