# 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

Wetted Components

Component

Casing

Cover

Seal

Impeller

Bearing

Shaft

MATERIALS OF CONSTRUCTION

Materials

available)

PEEK

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

Glass-Filled Polypropylene

Clear Polycarbonate

Acetal Copolymer

**Stainless Steel** 

Buna-N<sup>®</sup> (Other options

(Polyetheretherketone)

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

**Non-Wetted Components** 

Encapsulant

Strain Relief

Lock Ring

Wire Insulation

Materials

Ероху

Nylon

PVC

Glass-Filled

Polypropylene

**High-Temperature** 

### 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.

### Low Cost Accuracy

Mid-scale measuring accuracy within  $\pm 2.5\%$ . Full-scale accuracy within  $\pm 4\%$ .





Measurements shown in inches.



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### **ELECTRONIC SPECIFICATIONS**

4-20 mA version		0-5 VDC (regulated) version		
Power Requirements	12-24 VDC, Regulated, Loop powered	Power Requirements	12-24 VDC, Regulated	
Load driving capacity	ad driving capacity Use the following equation to calculate maximum load	Maximum Current	25 mA DC, Regulated	
	resistance: Max Loop Load ( $\Omega$ ) = 50 (Power supply volts - 12).	Minimum Load resistance	1000 Ohms	
Maximum Transmission Distance	Limited only by wire resistance & supply voltage	Maximum Transmission Distance	200 feet recommended	
Response time	2 seconds to 90% (step change)	Decolution	Infinito	
Resolution	Infinite	Resolution	mmite	
Over-current limit	Self limiting at 35 mA	Response time	< 5 seconds to 90% (step change)	
Other protection	Reverse polarity			
Relay Output		Pulse Output Version		
Power Requirements	12-24 VDC, Regulated	Power Requirements	12-24 VDC, Regulated	
		Response Time	<100 mS	
Maximum Transmission Distance	200 feet recommended	Maximum Current	25 mA DC, Regulated	
Switch Contact	Form C, 5A max 120 or 240 VAC	Maximum Transmission Distance	200 feet recommended	
Set Point Repeatability 1% of full scale	1% of full scale	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.

