



# Flowstat Turbine Flow Sensor

Perfect monitoring solution for chillers/cooling circuits, HVAC, medical equipment, batching and industrial process control applications.



## CHOICE OF THREE PORT SIZES

Select from 1/2", 3/4" or 1" NPTF porting to meet system requirements.

## EASY MAINTENANCE AND CLEANING

Has only one moving component, the impeller. Cleaning and maintenance may be performed without removing the sensor from the piping.

## HERMETICALLY 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 and 0-5 VDC 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.

## VALUE PRICING

Combined with low cost operation and maintenance, equals better bottom line savings for your operation.



PERFORMANCE	
Measuring Accuracy	±2% of full-scale
Repeatability	±0.5% of full scale
Turn Down Ratio	10 : 1
Flow Measuring Range	1/2" porting - 0.5 to 15 GPM (2-60 LPM)
With optional low-flow adapter:	3/4" or 1" porting 1.5 to 50 GPM (60-200 LPM)
Maximum Operating Pressure	Steel Cover 500 PSIG (34 Bar) Clear Cover 200 PSIG (14 Bar)
Temperature Range	-7°C to 107°C
Standard Calibration Fluids	Tap water @ 21°C
Filtration Requirements	150 micron filter recommended

MECHANICAL		
Dim	1/2" NPTF	3/4" - 1" NPTF
A	49mm	78mm
B	29mm	34mm
C	51mm	62mm
D	62mm	71mm
D*	62mm	73mm
E	94mm	133mm
F	67mm	97mm

MATERIALS OF CONSTRUCTION (WETTED COMPONENTS)	
(WETTED COMPONENTS)	(NON-WETTED COMPONENTS)
Sensor body : #316 Stainless Steel	Encapsulant : Epoxy
Cover : #316 Stainless Steel optional -Clear Polycarbonate	Strain Relief : Nylon
Seal : Buna-N Standard	Lock Ring : Stainless Steel
Turbine : Acetal Copolymer	Wire Insulation : High Temperature PVC
Bearing : Peek	
Shaft : Stainless Steel	

4-20mA ELECTRONIC SPECIFICATIONS	
Power Requirements:	12-35 VDC, loop powered
Load driving capacity:	1150 Ohms maximum
Maximum transmitting 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

0-5VDC ELECTRONIC SPECIFICATIONS	
Power Requirements:	12-35 VDC
Maximum current:	25 mA DC
Minimum load resistance:	1000 Ohms
Maximum transmission distance:	200 feet recommended
Resolution:	Infinite
Response time:	< 5 seconds to 90% (step change)

PULSE OUTPUT VERSION ELECTRONIC SPECIFICATIONS	
Power Requirements:	5-24 VDC
Response Time:	< 100 mS
Maximum current:	25 mA DC
Maximum transmission distance:	200 feet recommended
Minimum load resistance:	1000 Ohms
Protection:	Short circuit & reverse polarity

RELAY OUTPUT VERSION ELECTRONIC SPECIFICATIONS	
Power Requirements:	12-35 VDC
Maximum transmission distance:	200 feet recommended
Switch Contact:	Form C, 5A max @120 or 240 VAC
Hysteresis:	5% of set point maximum
Set point repeatability:	1% of full scale



## Analogue & Digital Measurements P/L

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