



# Flowstat Economy 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

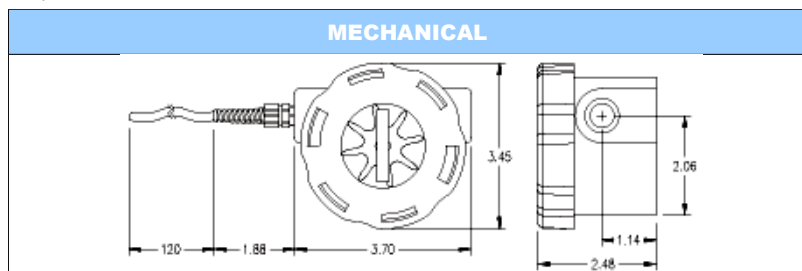
Can be connected directly to analog acquisition cards, chart recorders or other monitoring instruments, without external signal conditioning.

### 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.



| 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               |

| PERFORMANCE                     |                             |
|---------------------------------|-----------------------------|
| Measuring Accuracy              | ±2% of full-scale           |
| Repeatability                   | ±0.5% of full scale         |
| Turn Down Ratio                 | 10 : 1                      |
| Flow Measuring Range            | 0.5 to 15 GPM (2-60 LPM)    |
| With optional low-flow adapter: | 0.1 to 4.0 GPM (0.4-15 LPM) |
| Maximum Operating Pressure      | 150 PSIG                    |
| Temperature Range               | -7°C to 65°C                |
| Standard Calibration Fluids     | Tap water @ 21°C            |

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



## Analogue & Digital Measurements P/L

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