FLOWSTAT

Data Sheet No. FS4-00

CHOICE OF THREE PORT SIZES

Select from 1/2" , 3/4" or 1" 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

Stands up to the harshest environments.

TRANSMIT SEVERAL THOUSAND FEET

The standard interface is a 2-wire, 4-20mA current loop. Sensor signal may be transmitted on a low cost wire without degradation.

CONNECTS DIRECTLY TO YOUR FLOW MONITORING INSTRUMENTS

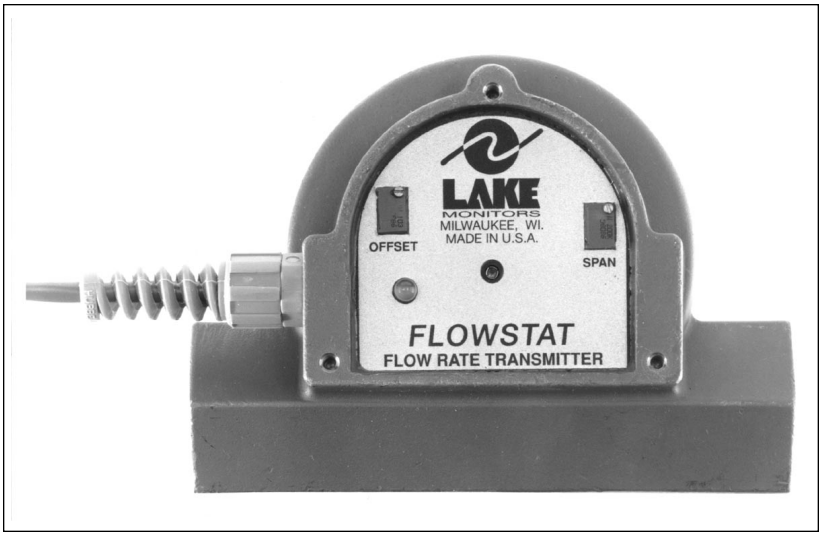
Can be connected directly to analog acquisition cards, chart recorders, or other monitoring instruments, without external signal conditioning.

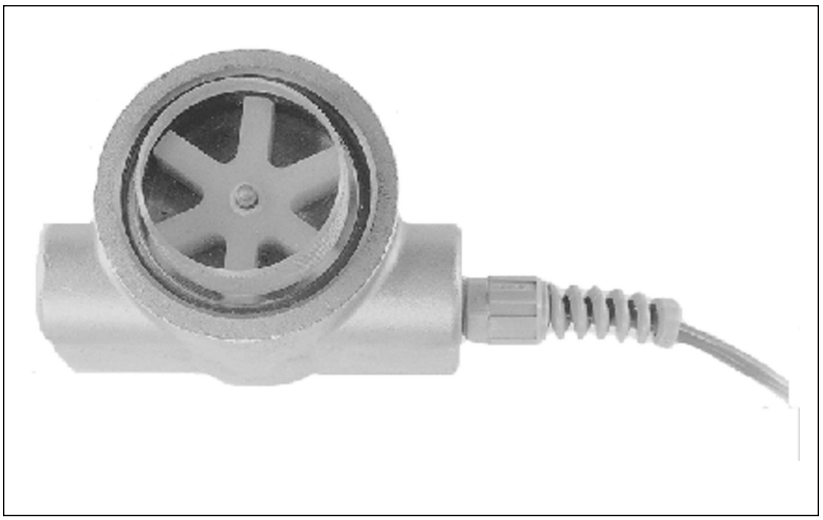
SIMPLY PLUMB AND APPLY POWER

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





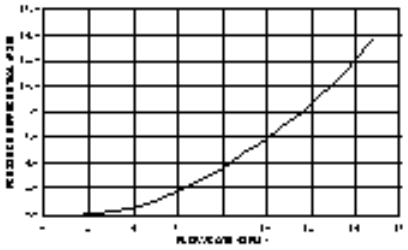
ENGINEERING SPECIFICATION

THE FLOWSTAT SENSOR SHALL:

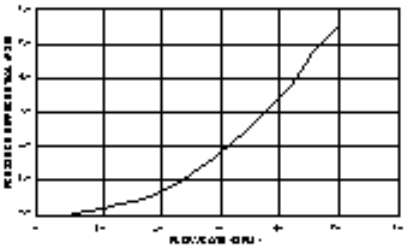
- have only one moving component.
- be calibrated to user specified flow range.
- have a measuring accuracy of 2% of full scale.
- have hermetically encapsulated circuitry.
- be Lake Monitors Number C_ _ - _ _ - _ _ for the Current output, and No. P_ _ - _ _ - _ _ for the pulse Output version

PRESSURE DIFFERENTIAL VS FLOW RATE

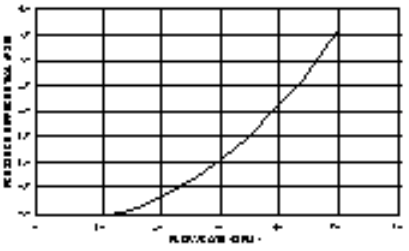
ϕ1/2" NPT Port Size



ϕ3/4" NPT Port Size



ϕ1" NPT Port Size



MATERIALS OF CONSTRUCTION

WETTED COMPONENTS:

Casing	Stainless Steel
Cover	Stainless Steel (optional clear polycarbonate)
Seal	Buna-N (other options available)
Turbine	Acetal copolymer
Bearing	iglide 250®
Shaft	Stainless steel

NON-WETTED COMPONENTS:

Encapsulant	Epoxy
Strain relief	Nylon
Lock Ring	Stainless steel
Wire insulation	High temperature PVC

Note: iglide 250® is a registered trademark of igus®

PERFORMANCE

Measuring accuracy:	±2% of full-scale
Repeatability:	±0.5% of full-scale
Flow Measuring Range:	
1/2" porting	0.5-15 GPM [2-60 LPM]
3/4" - 1" porting	15-50 GPM [60-200 LPM]
Temperature range:	20-225° F [–7 to 107°C]
Pressure Range:	to 500 PSIG [34 bar]
w/optional clear cover	to 200 PSIG [14 bar]
Pressure Differential:	See graphs

ELECTRONIC SPECIFICATIONS

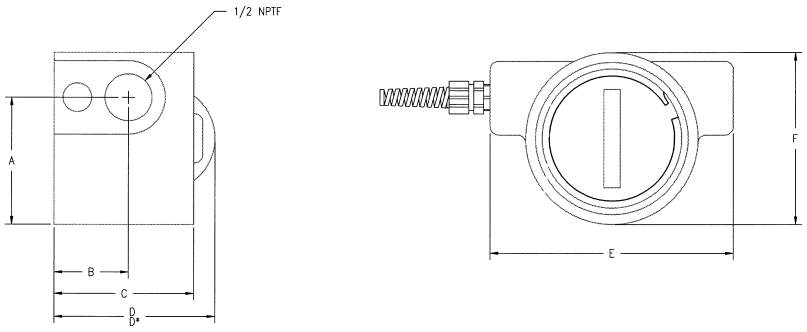
4-20 MA CIRCUIT:

Power Requirements	12-35 Vdc
Load driving capacity:	1150 Ohms max
Maximum transmitting distance:	Limited only by wire resistance & supply voltage
Response time:	2 seconds to 90% (step change in flow rate)
Connections:	Via 10 ft. (3m.) 22 awg pigtail
Controls:	4mA (offset): 20mA (span) factory set
Resolution:	Infinite
Over-current limit:	Self limiting at 30mA
Other protection:	Reverse polarity
Fail-safe indication:	4mA

PULSE OUTPUT VERSION:

Type:	3 wire, hall effect
Voltage:	5V minimum / 24V maximum
Maximum current:	25mADC

MECHANICAL



DIM	1/2" NPTF	3/4" NPTF - 1" NPTF
A	1.94" (49 mm)	3.06" (78 mm)
B	1.13" (29 mm)	1.33" (34 mm)
C	2.00" (51 mm)	2.46" (62 mm)
D	2.45" (62 mm)	2.78" (71 mm)
D*	2.60" (66 mm)	2.88" (73 mm)
E	3.70" (94 mm)	5.25" (133 mm)
F	2.63" (67 mm)	3.80" (97 mm)

* Dimension with optional clear polycarbonate cover installed

LAKE MONITORS