Fluid Sensors
Flow Sensor

Detailed Technical Data
Model: FS

Features

Medium	Water/fluids/glycol/oils
Sensor type	Digital flow sensor
Setup type	Programmable electronics via display
Display	Flow rate
Controls	Pushbutton
Installation location/method	Pipe mounted, horizontal or vertical
Sensor element type	Spring and piston
Housing rating	IP65 / IP67
Approvals	cULus (#E320431), CE



Mechanical

Wetted parts MOC	316 SS, FKM, brass, PPS
Process connection	FNPT threaded coupling
Connection sizes	3/4", 1", 1.5"
Display housing MOC	Plastic
Housing MOC	316 SS
Pressure range	0 - 360 psig
Temperature range of medium	14° - 212° F operating
Sizes	¾", 1", 1.5" other sizes available
Flow rates (GPM)	0-10, 0-27, 0-50

Electronics

Supply voltage	18-30 VDC (SELV / PELV)
Power consumption	< 50mA
Output signal(s)	4-20mA, max 22mA
Display	3-digit LED / 4-digit programming
Electrical connection	4 pin M12 cable
Cable	M12 cable provided, 6.5' or 22'L

FSC series digital flow sensors monitor liquid media and provides two outputs that can be configured for switching, frequency, or analog signals for either flow rate or temperature. Output OUT1 selection options:
• Frequency or switching output for flow or temperature Output OUT2 selection options
• Analog or switching output for flow or temperature Configuration and process variable monitoring are accomplished with the push buttons and a 4-digit, two-color digital display.

The FS series sensing principle is based on differential pressure which ensures an extremely fast response time and allows for a precise flow measurement. The FS series flow transmitters are ideal for applications with rapid temperature changes or where fast response time is required, such as:
• Machine tool coolant flow • HVAC cooling water flow • Injection molding cooling water flow

Sensor type
The flow sensor utilizes a spring-supported piston that is lifted by the flowing medium. The flow rate is determined by monitoring the piston position and converting it to an analog output signal. The spring resistance forces the piston to return to its original position with decreasing flow, preventing backflow. This allows the sensor to be mounted in any position (horizontally or vertically) and function as a check valve.

6007 S. Railroad Street
Burlington, WI 53105 USA 262.716.0105
sales@intell-i-watch.com.
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