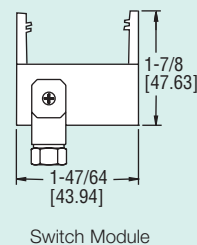
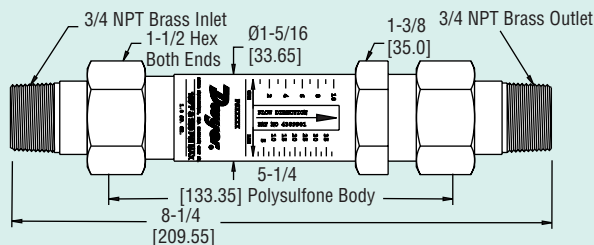




Series
FS

Flowmeter with Flow Limit Switch

Latching Relay, Adjustable, Dual Scale, Mount in any Position



Direct-Reading Series FS Flowmeters offer visual flow rate indication in GPM or LPM units. Models include an adjustable, latching flow alarm to open or close AC electrical circuits, trigger warning lights, or activate other process control equipment. Spring-retained moveable piston design allows installation in any position.

STOCKED MODELS in bold

Model No.	Range, GPM (LPM)	Connections
FS10410	0.5 to 4.0 (0 to 15)	1" male NPT (polysulfone)
FS11610	1.0 to 16 (5 to 60)	1" male NPT (polysulfone)
FS12810	4.0 to 28 (20 to 100)	1" male NPT (polysulfone)
FS20400	0.5 to 4.0 (2 to 15)	3/4" male NPT (brass)
FS20700	1.0 to 7.0 (4 to 26)	3/4" male NPT (brass)

SPECIFICATIONS

Service: Compatible liquids.
Wetted Materials: Polysulfone body, Barium Ferrite, Stainless Steel spring and retaining rings.
Temperature Limits: 158°F (70°C).
Pressure Limits: 325 psi (22.4 bar).
Accuracy: ±5% full scale.
Repeatability: 1.0%.
Set Point: Adjustable 0 to 100% FS.
Relay Load: 1 A @ 30 VDC; 0.5 A @ 125 VAC (resistive).
Supply Voltage: 115 VAC, ±10%.
Current Consumption: 25 mA max.

Process Connections: 1" male NPT Polysulfone or 3/4" male NPT brass.

Flow Scale: Calibrated at 1.0 specific gravity @ 70°F (21°C).
Weight: 1" male NPT Polysulfone; 0.55 lb (0.25 kg); 3/4" male NPT brass: 0.90 lb (0.41 kg).
Agency Approvals: CE.

APPLICATIONS

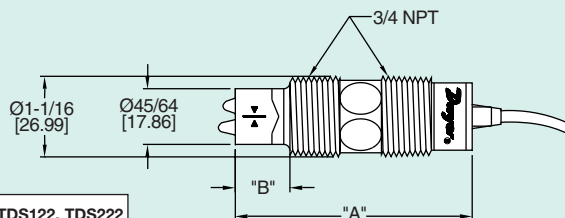
Monitoring flow in chemical processing, waste water processing, process control, lubrication systems, solar systems, drain lines, and pump testing.



Series
TDS

Thermal Dispersion Flow Switch

Adjustable Switch Point, LED Indication



Dim.	TDS112, TDS212	TDS122, TDS222
A	3.0" (7.6 cm)	4.5" (11.4 cm)
B	0.7" (1.8 cm)	2.1" (5.3 cm)

The Series TDS Thermal Dispersion Flow Switch offers solid state flow detection of non-coating liquids for pump and process protection. SPDT output allows for interfacing with remote PLC or relay control device. The adjustable switch point is factory calibrated at 0.2 fps with LED indication of flow and calibration status. Units feature selectable NO or NC operation and are not damaged by overranging flow velocities.

STOCKED MODELS in bold

Model Number	Wetted Parts	Length
TDS112	PP/Ryton®	3.0" (7.6 cm)
TDS212	PVDF	3.0" (7.6 cm)
TDS122	PP/Ryton®	4.5" (11.4 cm)
TDS222	PVDF	4.5" (11.4 cm)

SPECIFICATIONS

Service: Liquids.
Wetted Materials: Polypropylene /Ryton® or Polyvinylidene Fluoride.
Range: 0.04 to 10 fps (1.2X10⁻² to 3.05 m/s)
Temperature Limits: 32 to 140°F (0 to 60°C).
Pressure Limits: 150 psi (10 bar) @ 25°C, derated @ 1.667 psi (.113 bar) per °C above 25°C.
Repeatability: ±5% of setpoint.
Switch Type: SPDT.
Electrical Rating: 60 VAC/60 VDC @ 1 A.
Electrical Connections: 22 AWG 3-wire, 10 ft (3 m) length.

Process Connections: 3/4" male NPT.

Mounting Orientation: Any orientation, for pipe sizes 3/4" to 1-1/2" use 3.0" (7.6 cm) length switch; for 2" to 16" pipe sizes use 4.5" (11.4 cm) length switch.

Setpoint Adjustment: 0.04 to 3 fps (1.2X10⁻² to .91 m/s).
Setpoint Drift: 0.5% of setpoint.
Response Time: 1-10 seconds.
Viscosity Range: 1 to 200 centipoise.

Supply Voltage: 12 to 36 VDC.
Consumption: 50 mA (nominal).
Indication: LED for flow status.
Weight: 3 oz (94 g).
Agency Approvals: CE.