

TFS (Flow Sensors)

- 1/2", 3/4", 1", 1.5", 2", 3", 4" Plastic Tee Sizes
- 1.2 GPM to 500 GPM



When a sprinkler breaks or a pipe ruptures, you want to know about it. With accurate flow measurement from 1.2 to 500 GPM, the Toro® TFS Series flow sensors are yet another cost-effective water-savings tool from Toro. These impeller-based PVC flow sensors are available in 7 models from 1/2" to 4", each with a suggested operating range. The potted electronics are designed for valve box or underground installations making them ideal for virtually any residential, commercial, municipal or sports field application. And better yet, TFS flow sensors are compatible with competitor controllers as well.

Features & Benefits

Effective Flow Monitoring Even In Flows Less Than 5 GPM

Effective in ranges from 1.2 GPM to 500 GPM. Teamed with the Toro TMC-424, 1/2", 3/4" and 1" sensors provide a cost-effective flow monitoring and alarm system.

Compatible With Competitive Controllers

In addition to the TORO compatible controllers – TMC-424, TIS-360/480, Sentinel® and SitePro® – these flow sensors work with any controller or control system compatible with frequency output flow sensors (pulses per second proportional to flow velocity).

Specifying Information

TFS-XXX		
Model	Configuration	
TFS	XXX	
TFS—Flow Sensor	050—1/2" Plastic Tee	200—2" Plastic Tee
	075—3/4" Plastic Tee	300—3" Plastic Tee
	100—1" Plastic Tee	400—4" Plastic Tee
	150—1 1/2" Plastic Tee	

Specifications

Model	Description	Suggested Operating Range:
• TFS-050	1/2" Flow Sensor	1.2 - 12 GPM
• TFS-075	3/4" Flow Sensor	2.7 - 28 GPM
• TFS-100	1" Flow Sensor	5 - 50 GPM
• TFS-150	1 1/2" Flow Sensor	5 - 100 GPM
• TFS-200	2" Flow Sensor	10 - 200 GPM
• TFS-300	3" Flow Sensor	20 - 300 GPM
• TFS-400	4" Flow Sensor	40 - 500 GPM

Specifications and Features

- Simple impeller-based design
- Potted electronics designed for valve box or underground applications
- Sensor pre-installed in tee
- Removable sensor design for easy replacement without removal of tee
- Socket end tee
- Output: 2-wire, unscaled pulse – pulse width 5msec +/- 25%
- Frequency: 3.2 to 200 Hz
- Pressure Rating:
 - 1/2", 3/4" and 1" - up to 150 psi
 - 1 1/2", 2", 3" and 4" – up to 100 psi
- Temperature Rating: Up to 140° F
- Flow Range (Velocity):
 - 1/2", 3/4" and 1" – 2 – 20 feet per second
 - 1 1/2", 2", 3" and 4" – 1/2 - 30 feet per second
- Accuracy:
 - 1/2", 3/4" and 1" – +/- 3 to 5%
 - 1 1/2", 2", 3" and 4" – +/- 1%
- Linearity/repeatability:
 - 1/2", 3/4" and 1" – ± 1.5%
 - 1 1/2", 2", 3" and 4" – ± 0.3%
- Tee:
 - 1/2", 3/4" and 1" – Schedule 40 PVC
 - 1 1/2", 2", 3" and 4" – Schedule 80 PVC
- Sensor Housing: Potted, PPS
- Impeller:
 - 1/2", 3/4" and 1" – 300SS
 - 1 1/2", 2", 3" and 4" – Glass-filled nylon
- Shaft: Tungsten Carbide
- Bearing: UHMWPE
- Wires: 18AWG direct burial irrigation wire (solid copper)

Warranty

- Two-years

TFS Series

Provide a cost-effective residential and light commercial flow monitoring and alarm system

