

# TFS (Flow Sensors)

- 1/2" , 3/4" , 1" , 1 1/2" , 2" , 3" , 4" Plastic Tee Sizes  
(12mm, 20mm, 25mm, 37mm, 50mm, 75mm, 100mm)
- 1.2 GPM to 500 GPM (4,5-1892 LPM)



## Features & Benefits

### Effective Flow Monitoring Even In Flows Less Than 5 GPM (19 LPM)

Effective in ranges from 1.2 GPM to 500 GPM (4,5-1892 LPM). Teamed with the Toro TMC-424, 1/2", 3/4" and 1" (12mm, 20mm, 25mm) sensors provide a cost-effective flow monitoring and alarm system.

### Compatible With Competitive Controllers

In addition to the TORO compatible controllers – TMC-424E, TIS-PRO, 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).

## Specifications

### 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" (13, 20 and 25mm): up to 150 psi (10,3 Bar)
  - 1 1/2", 2", 3" and 4" (37, 50, 75, and 100mm): up to 100 psi (6,8 Bar)
- Temperature Rating: Up to 140° F (60° C)
- Flow Range (Velocity):
  - 1/2", 3/4" and 1" (13, 20 and 25mm): 2'-20' (0,6-6,0m) per second
  - 1 1/2", 2", 3" and 4" (37, 50, 75, and 100mm): 0.5'-30' (0,1-9,1m) per second
- Accuracy:
  - 1/2", 3/4" and 1" (13, 20 and 25mm): +/- 3 to 5%
  - 1 1/2", 2", 3" and 4" (37, 50, 75, and 100mm): +/- 1%
- Linearity/repeatability:
  - 1/2", 3/4" and 1" (13, 20 and 25mm): ± 1.5%
  - 1 1/2", 2", 3" and 4" (37, 50, 75, and 100mm): ± 0.3%
- Tee:
  - 1/2", 3/4" and 1" (13, 20 and 25mm): Schedule 40 PVC
  - 1 1/2", 2", 3" and 4" (37, 50, 75, and 100mm): Schedule 80 PVC
- Sensor Housing: Potted, PPS
- Impeller:
  - 1/2", 3/4" and 1" (13, 20 and 25mm): 300SST
  - 1 1/2", 2", 3" and 4" (37, 50, 75, and 100mm): Glass-filled nylon
- Shaft: Tungsten Carbide
- Bearing: UHMWPE
- Wires: 18AWG direct burial shielded cable

TFS Series Model List		
Model	Description	Suggested Operating Range:
• TFS-050	1/2" (13mm) Flow Sensor	1.2-12 GPM (4,5-45 LPM)
• TFS-075	3/4" (20mm) Flow Sensor	2.7-28 GPM (10,2-65 LPM)
• TFS-100	1" (25mm) Flow Sensor	5-50 GPM (18,9-189 LPM)
• TFS-150	1 1/2" (37mm) Flow Sensor	5-100 GPM (18,9-379 LPM)
• TFS-200	2" (50mm) Flow Sensor	10-200 GPM (38-757 LPM)
• TFS-300	3" (75mm) Flow Sensor	20-300 GPM (76-1135 LPM)
• TFS-400	4" (100mm) Flow Sensor	40-500 GPM (151-1892 LPM)

### Warranty

- Two years

## Specifying Information—TFS

TFS-XXX		
Model	Configuration	
TFS	XXX	
TFS—Flow Sensor	050—1/2" (13mm) Plastic Tee 075—3/4" (20mm) Plastic Tee 100—1" (25mm) Plastic Tee 150—1 1/2" (37mm) Plastic Tee	200—2" (50mm) Plastic Tee 300—3" (75mm) Plastic Tee 400—4" (100mm) Plastic Tee