



A durable yet cost-effective flow sensing solution: TFS series flow sensors provide reliable flow information to aid detection and response to information like breaks, while being accurate enough for tracking water usage.

FEATURES & BENEFITS

Effective in ranges from 1.2 gpm to 500 gpm

Teamed with the Toro® TMC-424E, and DXi®, as well as Irritrol® LXC™ and MC-E Series the ½", ¾" and 1" provide a cost-effective flow monitoring and alarm system.

Compatible with Competitive Controllers

In addition to Toro and Irritrol® compatible controllers, these flow sensors work with any controller or control system compatible with frequency output flow sensors (pulses per second proportional to flow velocity).

Additional Features

- ✓ Simple, yet effective 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



TFS SERIES FLOW SENSOR PERFORMANCE DATA

Sensor Model	TFS-050	TFS-075	TFS-100	TFS-150	TFS-200	TFS-300	TFS-400
Size	1/2"	3/4"	1.0"	1.5"	2.0"	3.0"	4.0"
K Value	00.78	0.1563	0.26112	1.699	2.8249	8.309	13.74283
Offset	0.9	0.9	1.2	-3.016	0.1435	0.227	0.23707

TFS SERIES MODEL LIST

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

Operational

- Output: Two-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 (60° C)
- Flow Range (Velocity):
 - 1/2", 3/4" and 1": 2'-20' per second
 - 1 1/2", 2", 3" and 4": 0.5'-30' per second
- 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": 300SST
 - 1 1/2", 2", 3" and 4": Glass-filled nylon
- Shaft: Tungsten Carbide
- Bearing: UHMWPE
- Wires: 18AWG direct burial shielded cable

Warranty

- Two years

Toro® DXi™
Series Controllers



Irritrol® LXC™
Series Controllers



Controller Compatibility

- | | | | |
|----------------|--------------------|-----------------|-----------------|
| ✓ Toro DXi | ✓ Toro TIS-360/480 | ✓ Toro SitePro® | ✓ Irritrol MC-E |
| ✓ Toro TMC-424 | ✓ Toro Sentinel® | ✓ Irritrol LXC | |

Any controller or control system compatible with frequency output flow sensors (pulses per second proportional to flow velocity) including: Rain Bird® Maxicom2® SiteControl and MDC, Hunter® ACC, WeatherTRAK® ET Pro2™, Calsense® and Rain Master™.

* Rain Bird, Hunter, WaitherTrak and Calsense and their respective products are trademarks of their respective companies in the U.S. and other countries.

Specifying Information—TFS Sensor

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



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