

# Toro Irrigation RainSensor Series



## Residential and Commercial Rain Sensor Series.

For all irrigation applications, the Toro RainSensor automatically shuts off water when it rains. Coupled with the water saving features offered on Toro controllers, the RainSensor takes total water management a step further. They are compatible with almost any irrigation controller on the market.

### The Toro RainSensor Family consists of the:

TWRS-I – Toro Wireless RainSensor

TWRFS-I – Toro Wireless Rain/Freeze Sensor

TRS – Toro Wired RainSensor

### TWRS-I – Toro Wireless RainSensor

- Simple mounting with side snap-on cover for added protection.
- Multi-functional receiver.
- Only rain sensor with a large LCD readout, displaying signal strength, temperature (freeze sensor only), remaining battery life, selectable water conservation levels and more.
- Three selectable water conservation modes, low, medium and high (to delay resumption of irrigation) and also user settable rain sensitivity. This offers flexibility based on sensor location, soil type, sun exposure, etc.
- Smart Bypass™ allows for system override at any time and switches back on automatically.
- Fail-safe mode. If no communication after 24 hours, icon will flash.
- Remaining battery life indicator.
- Signal strength indicator.
- Selectable rain shut-off indexes at 3, 6, 13, and 19mm of rain.
- Extended 152 m range.
- 1 – 5 day rain delay.
- Extended 3-year warranty.
- Visual sensor status and alert indicators verify consistent operation.
- Suits new systems and can be retro-fitted to all existing systems without cable.
- Proven hygroscopic disk operation.



Wireless Receiver (right)  
Wireless Transmitter (left)



Wired RainSensor

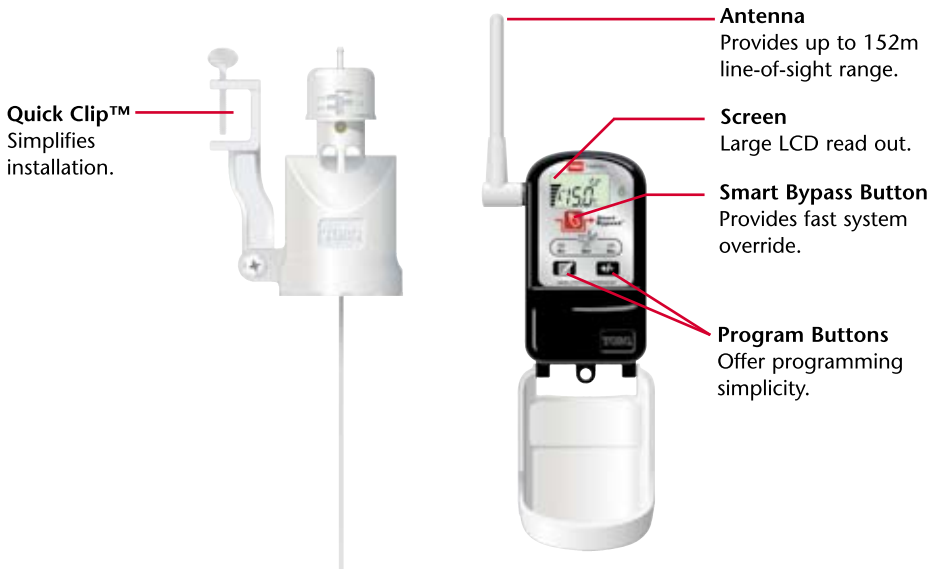
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## TWRFS-I – Toro Wireless Rain/Freeze Sensor

- Same features and benefits as Wireless RainSensor plus;
- Digital Freeze Sensor:
  - Reduces vegetation damage and accidents.
  - Fully integrated into the wireless unit.
  - Current outdoor temperature displayed on LCD.
  - Adjustable freeze shutoff point (1.7 – 7.2°C) - an industry first.
  - Sensor polling; the receiver polls the transmitter every 12 minutes to ensure accurate atmospheric feedback.

## TRS – Toro Wired RainSensor

- 7.6m pre-wired, weather and UV resistant cable.
- 4 shut-off points, 3, 6, 13 and 19mm.
- Versatile mounting options (one-piece Quick-Clip™ gutter bracket included - no special tools).
- N.C. (factory set) or N.O.



### ORDERING DETAILS

Code	Description
TRS	Toro Wired RainSensor
TWRS-I	Toro Wireless RainSensor
TWRFS-I	Toro Wireless Rain/Freeze Sensor



## Specifications

- Operating temperature: -28.9°C to 48.9°C.
- Housing material: Weather and UV-resistant engineered polymer.

## Transmitter

- Transmitting range: Up to 152m.
- Sensor: maintenance-free hygroscopic disks; adjustable rain sensitivity 3 – 19mm.
- Power source: 2 lithium coin cells (CR2032-3V).

## Receiver

- Factory set to Normally Closed (N.C.); can be set to Normally Open (N.O.), 3A @ 24 VAC.
- Power: 22 – 28 VAC/VDC, 100mA.

## Water Conservation Settings

Dynamically adjusts dry-out days based on an environmental algorithm.

Dry-out days are a core feature of the RainSensor. They are auto set through water conservation setting or user set through menu: 1 to 5 days in half day steps.

## Suggested Conservation Mode Settings

Sensor location	Soil Type		
	Sand	Silt	Clay
Shade	Min	Med	Med
Partial Sun	Min	Med	Med
Full Sun	Med	Max	Max

Dealer Stamp

**For Customer Service Call  
Toro Irrigation on 1300 130 898**

*Toro Irrigation is a business unit of Toro Australia Pty Ltd  
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**TORO Toro Australia Pty Ltd**