

TORO

Count on it.

TRS & TWRS

Wired & Wireless Rain Sensors

RAIN & FREEZE SENSORS

**WATER
SMART**

Save up to 30%* more water than existing disc rainsensors!



Receiver

Wireless Sensor Transmitter



Wired Sensor

Introducing Toro Wireless Rain Sensors and Toro Wireless Rain and Freeze Sensors - Sophisticated water-management technology housed in a dependable device that is both easy to install and use.

RELIABILITY

TRS and TWRS Sensors are based on R&D Engineering's technology that boasts a global installation base. In addition to Toro's highly regarded innovation, the TRS/TWRS is backed by a five-year warranty

INNOVATION

All sensors are settable for universally Normally Open or Normally Closed operation for compatibility with just about all electric timers with or without sensor connections. Wireless models include a large LCD that displays signal strength, temperature (TWRFS only), low battery, and allows for easy programming like digital freeze sensor adjustments from 35°F to 45° F (TWRFS only).

PRACTICALITY

All sensors include maintenance-free sensing disks; adjustable rain sensitivity (1/8" to 3/4"). Easy-to-install Quick-Clip™ gutter bracket and pole mount/conduit adapter bracket are included standard.

Toro Wired Rain Sensors Also offer a durable, cost-effective wired rain sensing solution designed to meet the needs of most applications.

TORO**Count on it.****SPECIFICATIONS**

TRS & TWRS

Wired & Wireless Rain Sensors

TWRS/TWRFS SPECIFICATIONS

- Operating temperature: -20°F to 120°F (-28.9° to 48.9° C)
- Housing material: Weather and UV resistant engineered polymer
- FCC, IC, ACA, UL, CUL, CE and C-tick approved
- Weight: 0.78 lbs (.353 g) (product & carton)

TRANSMITTER SPECIFICATIONS

- Transmitting range: up to 500' (152m) (line of sight)
- Sensor: maintenance free hygroscopic disks; adjustable rain sensitivity (1/8" to 3/4")
- Power: Two replaceable lithium cells (CR2032-3V)
- Dimensions: W= 1.75" (4.4cm) H= 3.5" (8.9cm) D= 1.75" (4.4cm)

TRS SPECIFICATIONS

- Normally Closed (factory set) or Normally Open (no tools required to change)
- Wire: 25 feet of white outdoor-rated UV-resistant cable
- Weight: 0.80 lbs (363 g) (product & carton)
- Dimensions: W= 1.75" (4.4cm) H= 3.5" (8.9cm) D= 1.75" (4.4cm)
- Rating 3 A, 24 VAC
- Operating temperature: -20°F to 120°F (-28.9° to 48.9° C)

RECEIVER SPECIFICATIONS

- Normally opened or normally closed; 3A @ 24VAC
- Power source: 22-28 VAC/VDC, 100mA (from existing timer or optional transformer)
- Dimensions: W= 2.0" (5.1cm) H= 4.0" (10.2cm) D= 1.25" (3.2cm)



- A ADJUSTABLE ANTENNA**
Provides line of sight range of up to 500'.
- B SMART BYPASS BUTTON**
Provides fast system override.
- C LCD DISPLAY**
Provides informative system feedback.
- D WATER CONSERVATION**
Water conservation modes make saving water easy.
- E SETUP/ADJUST BUTTON**
Simplifies programming.
- F QUICK CLIP**
Simplifies installation.
- G RAINFALL ADJUSTABILITY**
Adjustable from 1/8" to 3/4".

FEATURES

- Versatile mounting options - one-piece Quick-Clip™ gutter bracket or 1/2" conduit adapter
- Universal Normally Open and Normally Closed operation for compatibility with just about all electric timers
- Maintenance-free sensing disks
- Selectable rain shut-off indexes at 1/8", 1/4", 1/2", and 3/4" (3, 6, 12, and 19mm) of rain
- Low-profile design and UV-resistant housing for sensor
- Wired model (TRS) includes 25 feet (7.6m) of white outdoor-rated, UV-resistant cable

Wireless Models (TWRS and TWRFS Only)

- Multi-Functional Receiver
 - Large LCD provides visual sensor status
 - Selectable water conservation modes (to delay resumption of irrigation by intelligently extending beyond mechanical reset time) can save up to 30%* morewater
 - Smart Bypass™ allows for system override at any time and resets automatically
 - Low battery indicator
 - Signal strength indicator/scale
- Rain delay feature that works intelligently with the rain sensor (unlike most controller-based rain delays)
- Fail-safe modes in the event of loss of communications or failed sensor
- Rain/Freeze combination features digital programmable accuracy – a first in the industry – The Freeze shutoff can be set from 35° F to 45° F in 2° increments
- Real-time outside temperature (°F or °C) displayed on the LCD (TWRFS only)
- Five year easy to replace, standard coin cell batteries
- Transmitting range up to 500' (152m)

SPECIFYING INFORMATION

| Model | Description |
|-------|----------------------------------|
| TRS | Toro Wired Rain Sensor |
| TWRS | Toro Wireless Rain Sensor |
| TWRFS | Toro Wireless Rain/Freeze Sensor |

www.toro.com

490-3082 Patented with patents pending. *Savings vary based on sensor setting, watering schedule, sensor type and weather conditions.

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