

# Intelli-Sense Series

Residential/Commercial Controllers

*Combining unique programming with daily satellite-transmitted weatherstation data, Intelli-Sense:*

## SAVE Water

- Accurately determines water requirements zone by zone
- Adjusts watering schedules daily

## SAVE Time

- Reduces the guesswork of establishing a watering program
- Eliminates constant adjustments for changing weather conditions

## SAVE Money

- Automatically adjusts irrigation schedules for lower water bills
- Protective enclosure reduces maintenance and replacement costs

## Introducing Intelli-Sense—

the intelligent controller from Toro that automatically adjusts watering schedules to optimize irrigation.



WeatherTRAK™-enabled **TIS 612**

**TORO**

**Count on it.**

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## *How Intelli-Sense Works*

Intelli-Sense controllers incorporate advanced technology that accurately determines water requirements.

WeatherTRAK™-enabled software creates a scientifically calculated zone-specific baseline irrigation schedule. This schedule is updated each day using weather data delivered via one-way paging from the ET Everywhere™ subscription service. The result: irrigation based on science—not guesswork—everyday.

- WeatherTRAK automatically calculates irrigation schedules based on answers to a series of self-prompting questions.
- Variables include soil type, solar exposure, slope degree, sprinkler type, precipitation rate and plant variety.
- ET Everywhere data is accumulated from approximately 8,000 weather stations and calculated down to an area that encompasses your site by roughly six square blocks.
- National weather data is distilled into a rough ET value that is further refined based on local temperature and wind information.

## *Setup in Three Easy Steps*



1 Simply enter site-specific conditions upon installation of unit.



2 Information gathered from weather stations is transmitted through satellites to the Intelli-Sense controller.



3 Irrigation schedules are adjusted accordingly and precise water amounts are delivered automatically.

As much as 60 percent of a typical residential water bill comes from outdoor irrigation—much of which may result from over-watering. In an ongoing series of studies, Intelli-Sense's ET, Weather-TRAK-enabled technology has been shown to substantially reduce the cost and environmental impact of excessive irrigation.

### **Irvine Ranch Water District (Irvine, Calif.)<sup>1</sup>**

A two-year study involving 40 tract homes showed that 85 percent of potential water use was avoided by using Intelli-Sense.

### **Irvine Ranch Water District (Irvine, Calif.)<sup>2</sup>**

In a single micro-watershed study involving 114 residential and 26 commercial sites, a 64-71 percent run-off reduction was reported with average water savings of 41 gals./day per home and 472 gals./day per business.

### **Utah Water Department (Park City, Utah)<sup>3</sup>**

In a test designed to reduce water use "peaking" during summer months at 35 high-use homes, a typical customer reduced water bills by \$1,258.27 over a five-month period.

### **Santa Barbara County (Santa Barbara and Goleta, Calif.)<sup>4</sup>**

Ongoing research involving 200 Intelli-Sense units shows consistent average water use savings of 26 percent.

1. *IRWD Residential Weather-based Irrigation Study*: April 2001 by the Irvine Ranch Water District (IRWD), in conjunction with the Municipal Water District of Orange County (MWDOC) and the Metropolitan Water District of Southern California (MWD).

2. *Residential Runoff Reduction Study*: June 2003 by Municipal Water District of Orange County, Irvine Ranch Water District and National Water Institute, with additional funding by California Environmental Protection Agency, United States Bureau of Reclamation/CALFED, California Department of Pesticide Regulation and the Metropolitan Water District of Southern California.

3. *Residential Usage Reduction Study*: May 2002 to present by Park City, Utah/Utah Dept. Water Resources.

4. *WeatherTRAK ET Controller Distribution and Installation Program*: June 2003 by Santa Barbara County Water Agency, the City of Santa Barbara, the Goleta Water District, the City of Lompoc, the City of Santa Maria, and the Vandenberg Village Community Services District.

## Service and Support

The Intelli-Sense Series of real-time, automatic irrigation controllers is backed by Toro and its world-class reputation for sales, service and support.

- Toro-trained professionals and customer support personnel are available to provide service after the sale.
- Toro is working with local distributors to drive business to this significant breakthrough in water management technology.
- Distribution is backed by Toro-trained field service managers along with Toro's toll-free customer support line.

## Get Intelli-Sense Certified

The Intelli-Sense Series controller is the final step in creating the complete water management system. Visit [toro.com](http://toro.com) for more information or contact your local Toro Intelli-Sense-authorized distributor to find out how you can get Intelli-Sense certified.

## Benefits to the Contractor

Intelli-Sense sets landscape professionals apart from their competition with a technology others can't match.

- Required Toro Certification establishes contractors as water management professionals and product experts.
- Low initial investment consists of time spent learning about Intelli-Sense and what it has to offer.
- Intelli-Sense opens up opportunities for creating new designs and establishing maintenance accounts.
- Reduced water bills and superior landscapes elevate customer satisfaction and lower attrition.

## Benefits to the Homeowner

The technologically advanced Intelli-Sense offers tremendous cost, conservation and convenience benefits to homeowners.

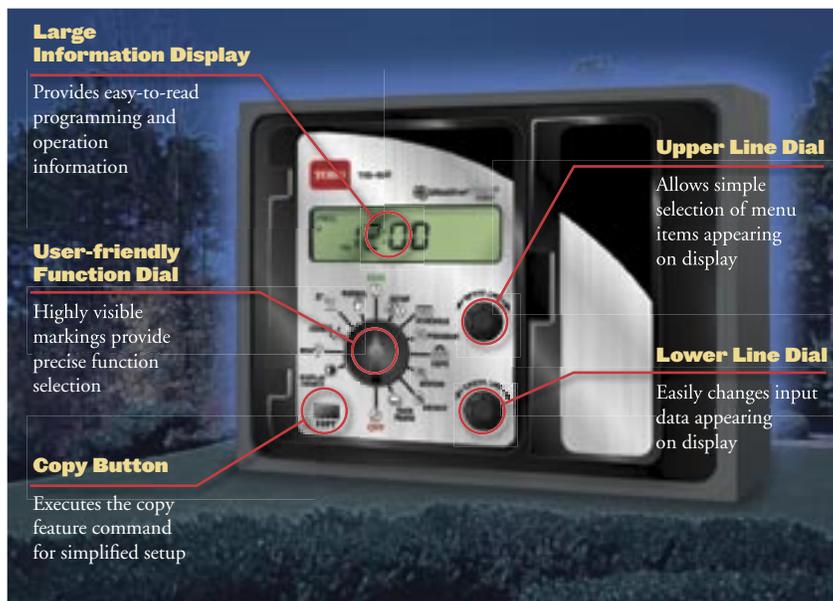
- Saves money by reducing the amount of water used for landscape irrigation.
- Ensures a healthier, more beautiful landscape by applying just the right amount of water every time, everyday.
- Reduces urban runoff of pesticides and fertilizers for a healthier environment.
- Increases convenience by eliminating the need to adjust the irrigation controller to meet changing weather conditions.

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## Saves Water, Time and Money

- **Scientific approach to watering**—*Weather-TRAK scheduling engine utilizes a simple and recognized approach to developing an accurate watering schedule*
- **Daily weather updates**—*one-way updates from ET Everywhere provide daily weather data within a 1 Km level of accuracy to ensure the proper application of water*
- **Proven performance**—*backed by multi-year independent studies showing water savings*
- **Compatibility**—*easy connectivity to wireless rain and wireless rain/freeze models*
- **Excellent surge protection**—*designed to withstand up to 6KV of surge on the 24-volt input side*
- **Flexibility**—*6-, 9- and 12-station indoor and outdoor models*
- **Non-volatile memory**—*maintains all programming data for 10 years in the event of a power outage*
- **Faster troubleshooting**—*valve short detection*
- **Self prompting programming**—*simplifies controller setup*
- **Large, easy-to-see display**—*provides a quick visual confirmation of programming and operation information*
- **Fully enclosed and integrated design**—*minimizes equipment vulnerability*



### Electrical Specifications

- Input power: 120 V ac (60 Hz)
- Station output power:
  - 24 V ac (60 Hz)
  - .05 amps per station max
  - .0375 amps pump/master valve
  - 1.0 amps total load
  - UL/CSA-listed transformer

### Mechanical Specifications

Indoor Model

- Dimensions:
  - 7 1/2" H x 6 1/2" W x 3 1/4" D (190.5 x 165.1 x 94 mm)
  - Shipping weight (including carton) – 4 lbs. 8 oz. (2.0 kg)

Outdoor Model

- Dimensions:
  - 7 1/2" H x 9 1/2" W x 5 3/4" D (190.5 x 241.3 x 146.1 mm)
  - Shipping weight (including carton) – 5 lbs. 6 oz. (2.4 kg)

### Optional Accessories

- Pancake Antenna
- Bow Tie Antenna

### Specifying Information

Model	Description
TIS-06-ID	6-station Controller (indoor)
TIS-09-ID	9-station Controller (indoor)
TIS-12-ID	12-station Controller (indoor)
TIS-06-OD	6-station Controller (outdoor)
TIS-09-OD	9-station Controller (outdoor)
TIS-12-OD	12-station Controller (outdoor)

**Example:** A 12-station TIS Controller as an outdoor cabinet would be specified as: **TIS-12-OD**



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• PO Box 489 • Riverside, CA • 92502 • (800) 664-4740 • www.toro.com  
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