

Intelli-Sense Controllers

SAVE WATER



Intelli-Sense Controllers accurately determines water requirements zone by zone, adjusting watering schedules daily.

SAVE TIME



Intelli-Sense Controllers reduce the guesswork of establishing a watering program and eliminate the constant adjustments for changing weather conditions.

SAVE MONEY



Intelli-Sense Controllers automatically adjust irrigation schedules for lower water bills while their protective enclosure reduces maintenance and replacement costs.

SERVICE & 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 distribution 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 www.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
- Proven technology reduces operational costs - elimination of programming guesswork improves efficiency and automatic adjustments reduce callbacks
- Reduced water bills and superior landscape elevate customer satisfaction and reduce attrition
- Providing "brand recognized," reliable products, and a higher level of expertise and service ensure a quality reputation

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, every day.
- 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.

www.toro.com

The Toro Company • Irrigation Division

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TORO

TORO

Count on it.

RESIDENTIAL & COMMERCIAL

Intelli-Sense™

TIS-612 and TIS-240 Controllers

NOW YOU'RE TALKING SERIOUSLY SMART IRRIGATION

Using the latest ET-based technology, Intelli-Sense Series Controllers automatically adjust irrigation according to plants' actual requirements, making them the ideal water conservation tool for residential or light commercial use.

WATER SMART

Save 40* gallons or more of water per day, per household

TIS-612



TIS-240



PERFORMANCE

True weather-based schedule adjustment accurately determines water requirements by zone and adjusts the watering schedule daily. Using real-time ET-data, Intelli-Sense controllers ensure your landscape receives the right amount of water, no more, no less.

PRODUCTIVITY

Site-specific questions take the guesswork out of establishing a baseline watering program for each zone. Daily adjustment based on local weather data eliminates the need for manual adjustment for changing conditions. Proven technology working to reduce callbacks for installers.

INNOVATION

Using the patented, proven WeatherTRAK technology, Intelli-Sense gives you the accuracy of a commercial-grade weather station without the cost and maintenance issues. Irrigation based on science, not guesswork.

Ongoing average water savings is 26% - Santa Barbara County

* Studies include Residential Weather-based Irrigation Study (Irvine Winter Ranch Water District, April 2001); Residential Runoff Reduction Study (Irvine Winter Ranch Water District, June 2003); Residential Usage Reduction Study (Park City Utah, May 2002); WeatherTRAK ET Controller Distribution and Installation Program (Santa Barbara County Water Agency, June 2003)



HOW INTELLI-SENSE WORKS

Intelli-Sense uses two technological advances to increase irrigation convenience and save water.

First, it incorporates WeatherTRAK® scheduling software to automatically calculate the optimum irrigation schedule based on a series of self-prompting questions answered upon installation. Variables include sprinkler type, precipitation rate, efficiency rate, soil type, plant type, root depth, micro climate, and slope factor. Answering these questions develops benchmark run and cycle times without any guesswork. All you do is input start times and water days, Intelli-Sense does the rest for you.

Next, Intelli-Sense controllers receive daily weather updates gathered from weather stations. This data is generated from government-owned weather stations throughout the U.S. and delivered via ET Everywhere to the Intelli-Sense controller. This system ensures you receive accurate weather data for your location from calibrated weather stations. No need to buy costly weather stations or worry about the maintenance, calibration, and upkeep of delicate sensors. If the system sees weather data that does not make sense, it won't use it.

Based on the daily updates, irrigation schedules are adjusted automatically to ensure precise water amounts are delivered –every time.



TIS-612 Indoor



TIS-612 Outdoor



TIS-240 Outdoor



TIS-ANT

ADDITIONAL FEATURES

Programmability

- Four programming modes
 - Automatic (controller-determined) with daily ET Everywhere downloads
 - User-defined with daily ET Everywhere downloads
 - User-defined without ET Everywhere downloads
 - Controller off
- Two independent programs with one start time per program (three independent programs on TIS-240)
- Selectable water window
- Three scheduling choices:
 - Seven-day calendar
 - Odd/even days
 - 30-day interval
- Independent station adjust from -50% to +25% in 5% increments
- Program stacking for simultaneous operation of two programs
- Cycle and soak programming allows up to 16 cycles per start time
- Start days programming based on seven-day week, 1-30 day interval or odd/even days
- 365-day calendar includes optional automatic adjustment for daylight savings
- Review mode shows schedule and programming for each valve
- Copy button to decrease programming time

ET

- Selectable maximum ET value
- Last downloaded ET values include time and date stamp
- Second program start time for days with abnormally high ET values
- Display of weekly ET values from previous seven-day accumulation
- Selectable crop coefficients (Kc values) for custom plant types

Hardware, etc.

- Available in 6, 9, 12-stations (TIS-612) or 24-stations (TIS-240)
- Built-in one-way pager to receive ET Everywhere weather data
- Automatic short detection for faster troubleshooting
- Available in indoor or outdoor models (TIS-240 outdoor only)
- Non-volatile memory maintains programming during a power outage for up to 10 years
- Compatible with normally closed rain sensors
- Sensor bypass switch
- Master valve/pump start

SPECIFICATIONS

MECHANICAL

Indoor Models

- Dimensions (6, 9, & 12 stations)
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 Models

- Dimensions (6, 9, & 12 stations)
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)
- Dimensions (24 stations)
11 5/8" H x 8 1/2" W x 5 3/4" D
(190.5 x 241.3 x 146.1 mm)
- Shipping weight (including carton)
TBD

ELECTRICAL

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

Controller Specifying Information

Model	Description	Cabinet
TIS -	06-station controller	ID - Indoor
Toro	09-station controller	OD - outdoor
Intelli-Sense	12-station controller	
	24-station controller*	

Example: A 24-station, Intelli-Sense (TIS-240) Controller in an outdoor cabinet, would be specified as: **TIS-24-OD**

*Available in outdoor only

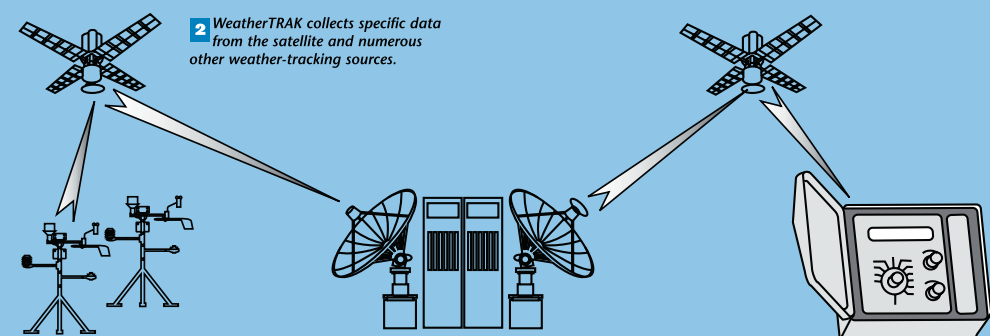
ET Everywhere Data Service Specifying Information

Model	Stations	Cabinet
ETE - ET	612 - 6, 9, or 12 stations	1Y - One year
Everywhere	240 - 24 stations	2Y - Two years
Service		3Y - Three years
		5Y - Five years

Contact WeatherTRAK Customer Service at 1-800-362-8774 for purchase and activation of ET Everywhere Data Service



WeatherTRAK Technology



1 Across the US each day, a vast network of weather stations transmits weather data to the NOAA satellite

2 WeatherTRAK collects specific data from the satellite and numerous other weather-tracking sources.

3 This information is then analyzed and converted to location-specific evapotranspiration (ET) data (accurate to one square kilometer) and transmitted to the WeatherTRAK wireless network.

4 Current ET data is then broadcast to Intelli-Sense controllers (with ET Everywhere service enabled) and adjusts irrigation schedules accordingly.

- Weather (ET) data gathered from NOAA Weather Satellites is accurate down to 1 sq. km., providing the accuracy of an on-site weather station without the cost and maintenance issues
- Patented WeatherTRAK scheduling engine eliminates guesswork in setting up baseline schedules which reduces time and error in setup
- Receive daily ET updates from the ET Everywhere service ensuring the most up-to-date weather information is used to adjust run times resulting in efficient water management