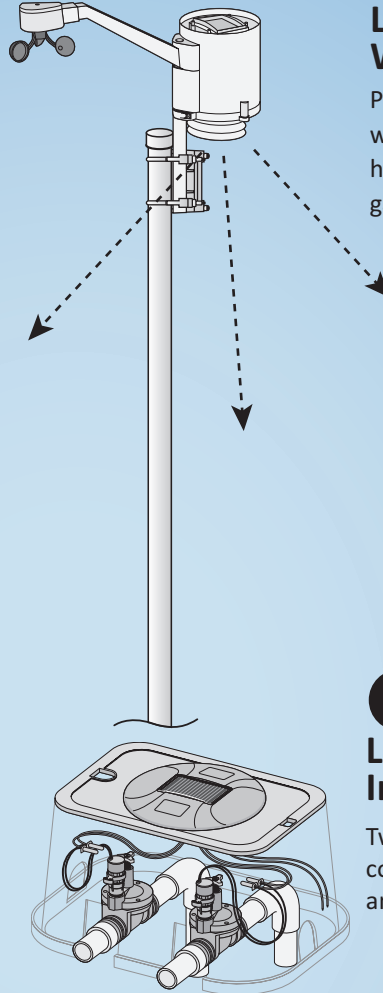


LEIT-2^{ET} System

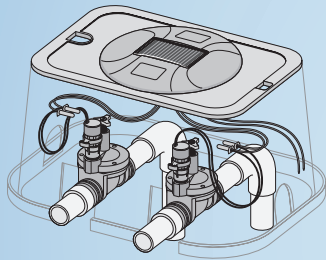


The DIG LEIT-2ET weather based system is a new state-of-the-art wireless irrigation control system that utilizes evapotranspiration (ET) data. The LEIT-2ET system is programmed to monitor, control and adjust irrigation schedules for each zone through the data that is received by the weather station and site information that is received from the LEIT RC2ET handset. The LEIT-2ET epitomizes a true wireless control system. The system operates by using ambient light (solar) power that charges lead-free super capacitors, not batteries, making it one of the most environmentally friendly controllers on the market with no running wires to the valves and no AC power required.



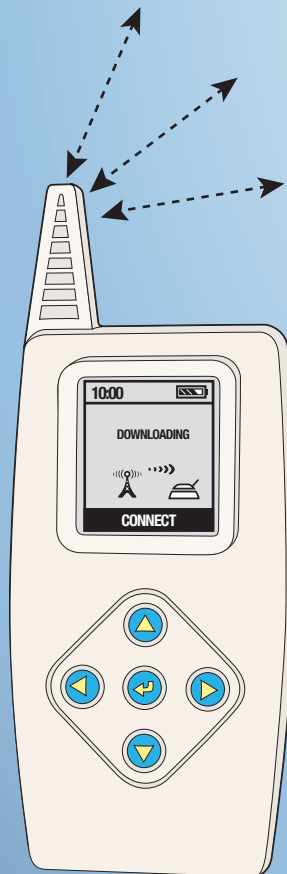
1 LEIT WWS Wireless Weather Station

Powered by ambient light (solar) the weather station includes thermometer, hygrometer, anemometer, tipping rain gauge and solar radiation meter.



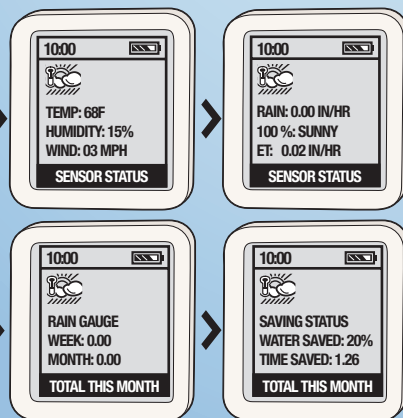
2 LEIT-2ET Irrigation Controller

Two stations, with two-way wireless communication. Powered by ambient light (solar).



3 LEIT RC2ET Wireless Handset

Programs up to 99 LEIT-2ET controllers (198 valves) and receives all user and ET data from a distance of 350 ft.



1 LEIT WWS - Wireless Weather Station

Transmits ET data hourly to all LEIT-2ET controllers within range (350 ft.). Monitors and measures humidity level, temperature, wind speed, solar radiation and rainfall.

2 LEIT-2ET Irrigation Controller

Receives information from the LEIT WWS and the LEIT RC2ET handset and automatically adjusts the irrigation schedule based on daily weather conditions and site data received. It operates up to two valves. No further adjustment or visits to the controller are necessary once it has been installed.

3 LEIT RC2ET Wireless Handset

Sends all programming data, including site information, receives all controller functions and provides ET reports. Capable of operating manual runs, manual tests and inputting specific landscape criteria such as; soil type, irrigation methods and plant types to integrate with ET data sent from the weather station to the LEIT-2ET controller.

LEIT WIRELESS WEATHER STATION

Ambient Light (Solar) Powered Wireless Weather Stations

FEATURES

- Power is provided by an efficient photovoltaic module (PVM) and microelectronic management system fueled by ambient light (solar)
- Weather data transmitted from the weather station is stored by the controllers and reviewable by LEIT RC2ET handsets
- The weather station ID number enables any controller in range to differentiate among multiple weather stations allowing the controller to receive information from several weather stations
- Based on user input and information collected from the weather station sensors, a LEIT-2ET controller performs the calculations needed to override or adjust the daily scheduled irrigation program to compensate for evapotranspiration (ET)
- Environmentally friendly, utilizes RoHS compliant components
- The LEIT weather stations utilize radio frequency in the ISM band 902-928 MHz (866 Hong Kong, 868 International) CE, IC, FCC certified, Australia and Hong Kong compliant
- The LEIT weather station's electronic components and sensors are completely waterproof
- The rain gauge is a self-emptying tipping bucket reading rainfall in 0.01 inch increments
- The LEIT weather station's three-plate radiation shield is specially designed to protect the sensors from reflected and radiated heat
- The LEIT WWS and WWSE weather stations can provide information to the LEIT ET controllers to completely stop irrigation if it is raining, freezing or too windy (excludes WWSE)
- Current weather data is provided to LEIT-2ET controllers daily, every hour, during daylight hours only
- The weather stations function both day and night in any weather and in most outdoor locations and only transfers weather data during daylight hours
- Rugged and lightweight plastic construction
- 3 year manufacturer warranty

TECHNICAL SPECIFICATIONS

- Weather station power requirements for normal operation: minimum of 3,000 Lux
- PVM power output 35 W/M2 at 100,000 Lux (231 W/M2) +/- 20%
- Input: 3,000-100,000+ Lux
- Wireless transmitter power and frequency specifications: -7 dBm @ 920 MHz / 7 dBm @ 868 MHz / -7 dBm @ 866 MHz
- Operating temperature: 14°F to 140°F (-10°C to 60°C)



SENSOR SPECIFICATIONS

- Humidity range and resolution: 1-99% (100% inches Hg)
 - Relative humidity accuracy: +/- 2%
- Temperature resolution and accuracy: -40°F to +170°F (-40°C to +77°C) +/- 1% resistance tolerance
- Wind speed resolution and accuracy: minimum speed 0 MPH (KPH) max speed 30 MPH (49 KPH) +/- 1%
- Rainfall resolution and accuracy: .01 inches accuracy +/- 2% @ 2" per hour

DIMENSION AND CONNECTIONS

- Weather station size: 6.07" W x 9.5" H x 13.65" D (15.42 cm W x 24.13 cm H x 34.67 cm D)
- Rain collector size: 5.13" W x 4.09" H (16.5 sq. in.) (13 cm W x 10.39 cm H)
- Mounting connection: 1"x12" mounting column and integrated clamp with two screws for mounting onto 1 1/2" mounting column (recommended height; minimum 8 ft or 2.4 m)



MODEL

LEIT WWS
LEIT WWS-I
LEIT WWS-H
LEIT WWSE
LEIT WWSE-I
LEIT WWSE-H

DESCRIPTION

USA, Canada, Australia and Japan
Europe and S. Korea
Hong Kong, Singapore and Macau
USA, Canada, Australia and Japan
Europe and S. Korea
Hong Kong, Singapore and Macau

LEIT-2ET

Ambient Light (Solar) Weather Based Wireless Controller

FEATURES

- Power is provided by an efficient photovoltaic module (PVM) and microelectronic management system fueled by ambient light (solar)
- Operates up to two stations and a sensor without AC power hookup, batteries, or conventional solar panels
- Two independent programs with four start times per program
- Used with Unimax S-305DC solenoids, which mount on most brand name valves using one of seven valve adapters
- Client ID enables the user to assign a unique identity code to the controller and handset; this is a security feature, which locks out unauthorized users
- The LEIT-2ET controller uses information transmitted from the weather station sensors and the LEIT RC2ET handset to override or adjust the daily scheduled irrigation program by adjusting the valve time duration in percentage to compensate for evapotranspiration (ET)
- The LEIT-2ET can monitor and receive signals from one to five weather stations every hour and uses the daily average data for evapotranspiration (ET) calculation
- The LEIT-2ET controller can monitor the weather stations and when ET is set to active will alert the user via the handset if information has not been received or how often the controller has received ET information that day along with the last time information was received
- The LEIT-2ET controller can receive information from the weather station(s) to completely stop irrigation if it is raining, freezing or too windy. This information is provided daily, every hour, during daylight hours only
- Environmentally friendly, utilizes RoHS compliant components
- The LEIT-2ET controller utilizes radio frequency in the ISM band 902-928 MHz (866 Hong Kong, 868 International) CE, IC, FCC certified, Australia and Hong Kong compliant
- The LEIT-2ET controller communicates with LEIT RC2ET handsets and weather stations from a distance of up to 350 feet (100 m) line of site by way of radio communication
- The LEIT-2ET controller functions both day and night in any weather and in most outdoor locations
- Default program: 5 minutes per day with a start time of 9 AM on valve one with no previous programming, if ID has been assigned
- Non-volatile memory retains program and controller integrity
- Program stacking feature prevents hydraulic overload
- Custom grouping of the two stations allows the controller to operate the two valves at the same time if hydraulic limitations are not exceeded
- Available with 18" (45 cm) color-coded 16 gauge wires for each valve and rain sensor
- Built from tough, rugged material and is resistant to harsh environmental conditions



- Completely waterproof, complies with IP68 requirements
- The LEIT-2ET has three mounting configurations including green, tan and purple valve box mounts, direct-to-valve clip mounting and column mounting with 25" (63 cm) or 50" (127 cm) mounting columns
- 3 year manufacturer warranty

ELECTRICAL SPECIFICATIONS

- Controller power requirements for normal operation: minimum of 3,000 Lux
- Controller input: 3,000 -100,000+ Lux
- Controller output: 9-volt DC pulse
- Controller station capacity: one 7-9 volt DC pulse, two-way magnetic latching solenoid per each set of red and white wires

SPECIFICATIONS

- Operating temperature: 32°F to 158°F (0°C to 70°C)
- Controller wire gauge: 16 AWG
- Wireless transmitter power and frequency specifications: -7 dBm @ 920 MHz / 7 dBm @ 868 MHz / -7 dBm @ 866 MHz
- Rain sensor connection: normally closed

DIMENSIONS

- 3" W x 5.5" L including the antenna (7.62 cm W x 13.97 cm L)



MODEL	DESCRIPTION
LEIT-2ET	USA, Canada, Australia and Japan
LEIT-2ET-I	Europe and S. Korea
LEIT-2ET-H	Hong Kong, Singapore and Macau

LEIT RC2ET HANDSET

Remote Control Wireless Handset

FEATURES

- Large liquid crystal display with user-friendly icons for easy programming
- Multilingual software in English, Spanish, Italian, French, German and Portuguese
- The LEIT RC2ET handset can perform functions such as program the LEIT-2ET controller, review status information, update ET information, check history reports, adjust budgeting, program rain delays and perform manual run or manual test
- ET feature can be overridden at any time
- Reports Menu screen provides various function information on the controller programming for the current and the last month. Information includes Current Status, Program Status and History for the month including rain gauge information, and water saving information when ET is active
- On connection to the controller the handset can review the controller ID #, the controller descriptive address, software version, valves' current status, alert flags, the last time ET data was received, along with date and how many times during the day the weather data was received
- Client ID enables the user to have a unique identity code for the handset and controllers; this is a security feature, which locks out unauthorized users
- The LEIT RC2ET has an operating range of up to 350 ft (100 meters), line of sight
- Environmentally friendly, utilizes RoHS compliant components
- The LEIT RC2ET utilizes radio frequency in the
- In Program Status, the user can review changes made to any of the programs and identify the handset that made the changes
- Diagnostic setting in Current Status screen provides the user with controller activity such as a short or open valve, controller's power level, sensors activity and any other active events
- The LEIT RC2ET can alert the user on connection if the controller has not been fully charged, including the number of days since the last full charge
- Rain Stop can be set via the Environment Setup screen using rainfall information transmitted to the controller from the weather station's tipping rain gauge sensor and also in manual rain using global stop
- Rugged and lightweight plastic construction
- 3 year manufacturer warranty

PROGRAMMING FEATURES

- Watering durations from 1 minute to 5 hours and 59 minutes in 1 minute increments
- Two independent programs with four start times per program
- Custom programming with 7-day calendar or intervals of 1-30 days in odd/even or every day rotation utilizing a 365-day calendar with leap year
- Site zone information can be input to each valve when ET setup is changed to active
- ET editing feature can be used to adjust ET information

- History Report provides the total valve(s) run time for current and past month, weekly and monthly rain measurements for previous and current week and month, in addition to ET savings in percentage saved and total time saved for current and previous month
- Wind speed setting can be programmed to shut down the system at wind speeds of 8-25 miles per hour (12.9-40 Km/h)
- Rain delay for up to 99 days with auto-restart
- Monthly Off feature allows any month of the year to be inactive
- Permanent Events Off feature allows any 3 days of the year to be inactive by overriding any programs that are operating on these days
- Individual monthly water budgeting from 10-200% in 10% increments
- Manual Test of individual valves and Manual Runs can be performed via the RC2ET handset
- Global Stop command turns off all valves with the same Client ID within radio range

SPECIFICATIONS

- Remote handset input: 12-volt DC
- Power supply: rechargeable 3.6V Ni/MH
- Wireless transmitter power and frequency specifications: -7 dBm @ 920 MHz / 7 dBm @ 868 MHz / -7 dBm @ 866 MHz

DIMENSIONS

- 2.25" W x 5.5" L including the antenna
(5.72 cm W x 13.97 cm L)



MODEL	DESCRIPTION
LEIT RC2ET	Remote handset, USA, Canada and Japan
LEIT RC2ET-I	Remote handset, Europe and S. Korea (black)
LEIT RC2ET-H	Remote handset, Hong Kong, Singapore and Macau (black)
LEIT RC2ET-A	Remote handset, Australia