

# SunDialer™, the economical WindowManagement® system

## An intelligent controller that:

- tracks the sun and adjusts shade positions on the window automatically.
  - monitors real-time sky conditions over the course of the year.
  - compares actual solar radiation to the ASHRAE clear-sky model for appropriate shade positions at the window.
  - controls up to 12 zones.
  - uses window geometry and window orientation for each control zone for calculating a user-adjustable solar-penetration threshold.
  - includes an event scheduler for weekly, bi-weekly, monthly, bi-monthly, or additional timed settings.
  - generates an historical solar memory log for reporting and fine-tuning shade positions.
  - designed for small-scale and retrofitted projects for cost-effective solar control.
- To enable remote support and network control, one SunDialer™ IP Interface unit is required per system.



## Solar radiometers



## 12-zone SunDialer™ I-Con® with sensor ports and SunDialer™ IP Interface

One IP Interface required per system



## 12 zone SunDialer™ I-Con® without sensor ports

May be ganged for additional zones— up to four units for 48 zones



## I-Con® Gateway Internal control

For third-party systems



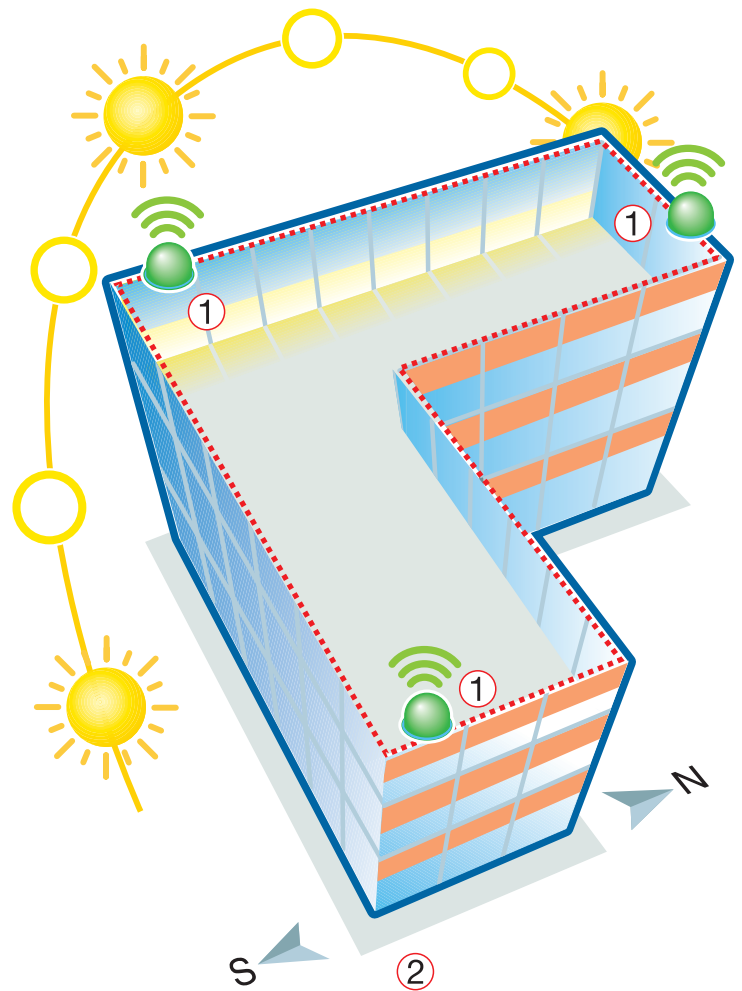
See SolarTrac® →

# SolarTrac® The ultimate WindowManagement® system

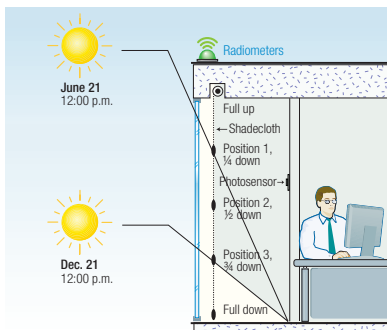
## An intelligent controller that:

- adjusts the shade positions—minute-by-minute, 7/24/365.
- tracks the sun and adjusts the shade positions automatically.
- maximizes occupant views to the outside.
- provides natural light for occupant well-being.
- diminishes direct sunlight and glare.
- optimizes dimmable-light systems to reduce energy cost—as much as 70% savings.
- assures uniformity of the view on a building's façade.
- offers an optional Brightness-Override Module and a Shadow-Override Module.

- ① Three solar sensors on the roof determine if it is clear, cloudy, or bright/overcast.
- ② Local switches can override the system. It regains control at 5 a.m. the following day.

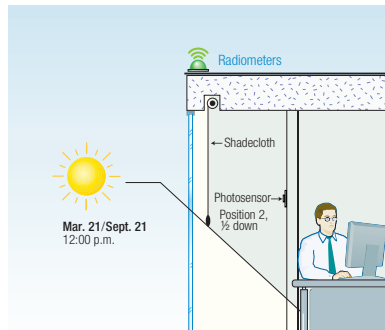


### Allowable solar penetration summer/winter: June 21/Dec. 21



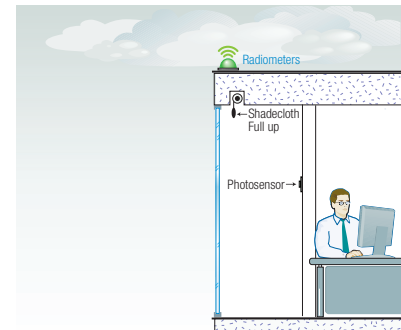
Peak solar altitudes during the year on the south elevation, 40° north latitude. SolarTrac® system preset to six or more positions plus user-defined solar penetration (3 ft./91cm shown here).

### Allowable solar penetration spring/fall: Mar. 21/Sept. 21



Pre-defined shade position is set for the sun angle in the spring or the fall at 5 ft./152cm.

### Overcast-sky condition



In the glare mode, the shade provides protection from the glare of a bright sky while offering a view to the outside.

See SunDialer™ →