

How It Works



CONSTRUCTION

The module housing is constructed of a stainless steel structure and UV-rated stabilized polymer insert for longevity and durability in tough greenhouse conditions. The entire module is compact (7"x18"x6"), making it easy to install on existing conveyor lines without needing much extra space. The module contains the Smart Optics sensor and component board, which works with your existing irrigation system to control how much water each basket receives to reach the desired soil moisture content programmed by the grower.

SENSOR TECHNOLOGY

The patented Smart Optics sensor and force sensor work together to determine if there is a basket present and whether the basket is an upper or lower basket. As the basket passes through the sensors, the weight is determined, and the basket is automatically watered to the ideal weight programmed by the grower. The sensors eliminate the need for tabs on basket hooks, as well as the need for mechanical switches. Less parts means less maintenance and need for repairs or replacements down the road.

INSTALLATION & MOUNTING

The OASIS module is mounted with ease to any cable conveyor line in three simple steps:

1. Mount the module housing using the included bracket assembly parts
2. Insert/slide the module's component board into place
3. Fasten the "quick coupling" electrical connector to the component board

All mounting hardware is included, and we're only a phone call away to guide you through the process.

CONTROL PANEL

Control panels are enclosed in durable corrosion-resistant and dust- and water-tight fiberglass that can be easily mounted in any desirable location close to conveyor lines. All components are UL listed, industrial rated, and almost entirely Schneider Electric brand for superior durability, quality, and peace of mind.

Control panels include a programmable logic controller, variable speed AC controllers, and a color touchscreen (6" or 10") that allows the user to intuitively program the OASIS system and gain at-a-glance data on basket weights, irrigation needs, inventory, and more.

ADDITIONAL FEATURES

The control panels feature short circuit protection and overload protection for all components. The included variable-speed AC gear motors are known for their longevity and are extremely low maintenance. These directly replace existing single-speed motors.