

# wiSCAPE™



Project Name \_\_\_\_\_

Catalog No. \_\_\_\_\_ Date \_\_\_\_\_

The wiSCAPE™ Low Voltage Module is a bi-directional wireless RF device that enables solar (photovoltaic) and battery powered devices to be managed, monitored and metered. The module adds intelligent functions and networkability to any low-voltage motion sensors, display/text banners and other types of sensors. The module can switch loads up to 1 Amp and features short circuit protection and open load detection. The adaptable sink and source 0-10V output is compatible with all dimming drivers. Digital inputs and an analog output make sending and receiving signals from additional control devices simple and easy.

Available in either 2.4GHz or 900MHz ISM (Industrial, Scientific and Medical) radio versions, each wiSCAPE Low Voltage Module transmits over the air using military grade AES-128 (Advanced Encryption Standard) security. AES is a powerful encryption method used in many data security applications.

The wiSCAPE Low Voltage Module drastically simplifies control and automation of projects, especially in retrofit environments where adding additional control wiring would be too costly. The wiSCAPE control technology adapts easily to complex automation situations for quick, simple and economical commissioning.

#### Product Features

- 3 Digital inputs / 1 analog input for low-voltage switch, motion and photo sensors
- Universal dimmer 1-10V (sink/source) for all types of ballasts & drivers
- 1 Secondary dry contact output for driving external loads
- Bi-directional long range wireless RF Mesh communications
- Integration with wiSCAPE software
- Multi-level grouping and multiple scenarios
- Adjustable minimum and maximum dimming levels
- Programmable state after blackout, with peak shaving options
- Blink warning and override before scheduled lights off
- Both locally and remotely controllable with status and metering reporting
- Smart daylight harvesting and motion sensing functions, with occupied and unoccupied levels including a lamp saver function
- Manual-ON/Auto-OFF, Auto-ON/Auto-OFF and grace period compliant

#### Compliance and Certification



#### Ordering Information

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MODEL	
<b>WIR-LVM-IO</b>	wiSCAPE™ Low Voltage Module with Metering, 2.4GHz Radio, I/O Terminals
<b>WIR-LVM9-IO*</b>	wiSCAPE™ Low Voltage Module with Metering, 900MHz Radio, I/O Terminals

\* 900 MHz Devices are MTO - Contact Customer Service for Availability

**General Specifications**

Voltage	12VDC to 24VDC Consumption: 0.06mA at 12V and 0.04mA at 24V
Maximum Load	1 Amp
Output Status Monitoring	Standard feature
Power Monitoring	Voltage - Burn-time counters
0-10V Dimming	For all types of 0-10V drivers and ballasts requiring either to be sunk (up to 5mA) or sourced (20mA standalone or higher w/ext. source)
Inputs	3 Digital: e.g. Motion sensor and switch top/bottom buttons (0-30V) + 1 Analog (0-30V)
Secondary Output	1 Digital (supply voltage (12-24V) – max: 20mA) or sink to ground (0V)
Radio Coverage	Up to ~1,000 ft. (~300m) Note: Antenna must be mounted vertically up or down. Range based on clear line of site. Recommended deployment practices: Locate wireless devices within a 300 foot radius of the next wireless device for most reliable performance.
Ambient Temperature Range	-40°F to 185°F (-40°C to +85°C)
Relative Humidity	Up to 99% non-condensing
Certifications	UL: E48166 2.4GHz Version - FCC: U.S. FCC Part 15.247 Class A: OUR-XBEE / OUR-XBEE PRO, Canada IC: 4214A-XBEE / 4214A-XBEE PRO, Europe CE: ETSI / ETSI 900MHz Version - FCC: U.S. FCC Part 15.247 Class A: MCQ-XB900HP UL94V-0 Flame retardant ABS or epoxy molding
Warranty	Five-year limited