



# Smartwired Switching System

- ◆ Low-voltage switching platform for use as a stand-alone or networked control system
- ◆ Automated facility-wide control combined with flexible local occupant control
- ◆ “Smartwiring” for flexible relay grouping
- ◆ Choice of Network Clock or BMS Interface Module
- ◆ LONWORKS®-based network communications
- ◆ UL listed, one year warranty



## System Description

The Watt Stopper Smartwired Switching System (SWS) is a small network of relay panels and intelligent switches linked by a four-wire dataline. Together these devices create a flexible low voltage control platform that uses “smartwiring” to provide simple, effective lighting control without PC-based administration.

## Basic Operation

Modular in design, an SWS panel consists of a tub, cover, power supply, and panel interior. For automated lighting control scenarios in a simple, menu-driven format, users can incorporate the Network Clock, which doubles as a programming device and system-wide diagnostic tool. Alternatively, they can employ the BMS Interface Module that provides control scenarios for each of eight channels in the system while accepting scheduling input from another building system. Linking the entire system together is the Echelon-based Dataline, which connects multiple panels and system switches. Intelligent Dataline Switches rely on this communication link to offer flexible local control options to occupants while preserving the effectiveness of facility-wide automated control.

## Features

The SWS system features eight separate channels that can be programmed to control individual relays or groups of relays in the system. In addition, the Dataline Switches, available in 1, 2, 4, or 8-button configurations, offer further programming flexibility via each button. Facility occupants can use these switches to override scheduled control scenarios to suit their local needs. Control scenarios for interior and exterior lighting via the Network Clock include ON/OFF control (i.e., combinations of manual, scheduled, and astronomic) that users can assign to individual channels. For facilities that use building management systems, the BMS Interface can accept control signals from other building systems, such as security, to turn lighting on or off. The optional Photocontrol Package will operate seamlessly with either of the two automation modules to provide photosensitive exterior lighting control. Users may also select the optional Universal Switch Module to integrate non-dataline devices into the network.

## Applications

As a flexible lighting automation system, the Smartwired Switching System offers users the ideal control system for interactive applications, such as retail operations and warehouses, where occupants may need to override the system at times. It is also an excellent choice for applications that require varying schedules and automation needs, such as office buildings, since the system’s flexible relay grouping enables several control needs to be met simultaneously. While the automated control meets the needs of owners, the local control options also satisfy the needs of occupants. The modularity of the system accommodates future additions or changes in facility layout or control requirements.

### The Watt Stopper®, Inc.

2800 De La Cruz Blvd.  
Santa Clara, CA 95050

Tel: (408) 988-5331  
Fax: (408) 988-5373

National Technical Support  
(800) 879-8585

# Smartwired Panel Technical Information

## Specifications

- ◆ Panels available in 12-, 24-, or 48-relay configurations
- ◆ Eight channels in each SWS panel, capable of linking for global control functions
- ◆ Choice of Network Clock or BMS Interface automation modules
- ◆ Choice of five common automation scenarios for each channel
- ◆ Optional 4-wire Dataline Switches in 1-, 2-, 4-, 8-button configurations
- ◆ Optional Photocontrol module for photosensitive exterior lighting control
- ◆ UL listed, one year warranty
- ◆ DIN rail mounting for automation modules
- ◆ Echelon-based four-wire dataline for connections between panels and system devices

## Product Checklist

A Smartwired panel includes the following:		
Product group	Catalog No.	Description
Panel interior	HINxxy12SS (SP)	Smartwired panel interior*
	HINxxy24SS (SP)	Smartwired panel interior*
	HINxxy48SS (SP)	Smartwired panel interior*
Power Supply	HPSM115/277	Power Supply
Cover	HCVRxxSL	Enclosure cover for 12, 24, or 48-relay tub (surface mount)
	HCVRxxFL	Enclosure cover for 12, 24, or 48-relay tub (flush mount)
Tub	HTUBxx	Tub Enclosure (specify panel size)
Control Module (choose 1)	HCLK8SS	Network Clock/Programmer
	HBMS8SS	BMS System Interface module
Wire	HDLW4	Dataline wire (add -P to the end of the catalog number for plenum rated wire)

\*Specify number of relays (multiples of four only) in place of xx in catalog number.

## System Options

Optional system enhancements include:		
Switch	HDLSxSS	Dataline Switch (Add 1, 2, 4, or 8 in place of x for button configuration)
	AS-110	Automatic Control Switch
Control Module	HPCP8SS	Photocontrol Package
	HUSM8SS	Universal Switch Interface Module

## Panel System Layout

