



## PRODUCT: BCS BASYX PSC

### Product Overview

The BASYX PSC controller is an inexpensive stand-alone controller which can be incorporated into a full direct digital control system. The unit provides basic time-of-day scheduling, temperature control and environmental monitoring along with complete electrical usage monitoring and reporting. The PSC contains all on-board firmware, clock and memory for complete stand-alone operation, and does not rely on a central system controller for operation.

The PSC controller contains eight (8) SPDT relay outputs for binary control, each with a Hand-Off-Auto switch for local control, eight (8) universal inputs for analog or binary contact monitoring, and four (4) pulse meter inputs. In addition, an optional four (4) point analog output board allows control of 0-10vdc/4-20ma dampers, valves or other analog devices. An optional 2400 baud plug-on modem module allows remote interrogation and service.



The PSC may be interconnected with additional BASYX controllers through a twisted pair cable, with maximum system configuration of 256 controllers. This network will provide access to all controllers through a single modem or direct connection.

The BASYX system is maintained and monitored through a Windows based interface program, providing total system interrogation, programming and report generation through a direct connection, optional modem connection or intranet/internet with our optional TCP/IP interface module.

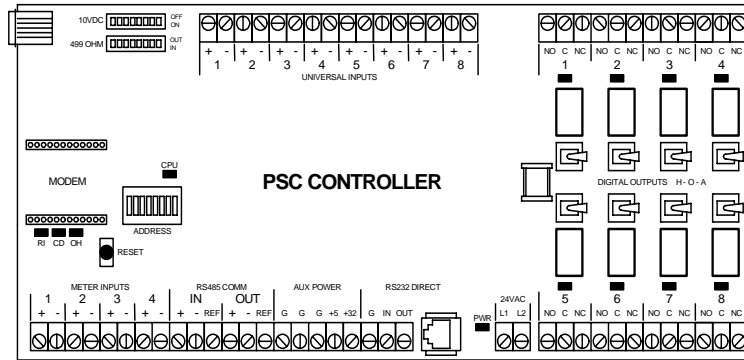
### Features

- “Stand-alone” operation requires no central controller for system operation.
- Time-of-day schedules resident in each controller with an on-board clock, implemented through simple setup screens.
- Form C SPDT relays with HOA switches allow local control of board outputs for testing or emergency operation
- Point interlock for more complex control strategies.
- Built-in lead/lag control of boilers, pumps and additional equipment.
- Temperature control through simple setpoint entries performs control of rooftop, split-systems or other HVAC and lighting equipment.
- Time schedule control of lighting or additional building systems.
- Complete monitoring of up to four (4) digital pulse meters, with load management and historical reporting.
- Windows program provides simple system setup and programming.
- Direct connection of laptop or personal computer system.
- Program integrity through battery backed-up RAM – Retains system programming with power off.
- System total configuration of 256 controllers allows projects exceeding 6,100 points.
- Controller network length of 4000 feet.
- 24vac power reduces installation cost.
- Snap-Track mounting.
- Complete logic and global capabilities.

### Options

- Optional on-board modem for interface to standard voice-grade telephone line. Allows remote interrogation and setup of all system functions.
- Optional four (4) point analog output board for control of 0-10vdc or 4-20ma devices.

## Controller Details



View of PSC stand-alone controller

## Specifications

Communication:	EIA RS-485 at 57.6K baud on 18AWG shielded, plenum rated cable (Recommended Belden 6300FE or equivalent)		
Power Requirements:	Voltage:	24VAC (-10% / 5%), 50/60/Hz	
	Current:	3.2VA	
	Recommend 7VA transformer sizing for AC power		
Universal Inputs:	(8) Universal inputs	Thermistor	10,000 ohm type II material
		0-10vdc	>/= 100 ohm input impedance
		0-20ma	</= 500 ohm input impedance
		Resistance	0-10,000 ohms
		Dry contact	>/= 50ms timing
Digital Inputs:	(4) Meter inputs	Dry contact >/= 50ms timing	
Digital Outputs:	(8) Dry contacts	SPDT pilot duty rated 1 amp at 24VAC/24VDC	
Analog Outputs (Optional):	(4) 0-10VDC or 4-20MA	>/= 1K ohm drive impedance	
Ports:	RS-485 communications bus RS-232 direct connect bus RS-232 modem socket		
Environmental Limits:	Temperature:	32°F to 125°F.	
	Humidity (non-condensing):	95%	
Enclosure/Mounting:	4" Snap-track mounting channel		
UL Listing:	ANSI/UL 916		
Dimensions:	8.5"W x 4.0"H x 1.5"D		
Shipping Weight:	Approx. 1.1 lbs.		

Although accurate at the time of publication, data is subject to change without notice