**GCS** Global Control Solutions

Basyx PSC2 Controller

Product Overview

The Basyx PSC2 controller is a stand-alone controller which can be incorporated into a full direct digital control system. The unit provides time-of-day scheduling, temperature control and environmental monitoring along with complete electrical usage monitoring and reporting. The PSC2 contains all on-board firmware, clock and memory for complete stand-alone operation, and does not rely on a central system controller for operation.
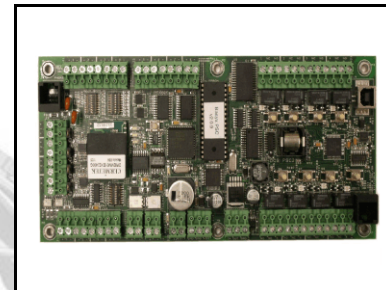
The PSC2 controller contains eight (8) SPDT relay outputs for binary control, each with a Hand-Off-Auto pushbutton for local control, eight (8) universal inputs for analog or binary contact monitoring, four (4) digital/pulse meter inputs and four (4) analog outputs for modulating control of 0-10vdc/4-20ma dampers, valves or other analog devices. An optional plug-on modem allows remote interrogation and service.

The PSC2 may be interconnected with additional Basyx controllers through a twisted pair cable, with maximum system configuration of 256 controllers.

The Basyx system is maintained and monitored through the TriComm Windows based interface software, providing total system interrogation, programming and report generation. System connection can be done via a direct USB connection, modem or internet connection with the optional BASYX M24 modem or BASYX IPM internet module.

Features

- Stand-alone operation requires no central controller for system operation.
- Form C SPDT relays with HOA pushbuttons for testing or emergency operation
- Operational programs resident in each controller, implemented through simple setup screens.
- If-Then-Else logic capabilities for more complex control strategies.
- Multiple time of day schedules for equipment scheduling.
- Temperature control through simple setpoint entries for HVAC or lighting equipment.
- Built-in lead/lag control of boilers, pumps and additional equipment.
- Monitoring of up to four (4) utility pulse meters, with load management and historical reporting.
- TriComm Windows program provides simple system setup and programming.
- Real-time clock for stand alone operation.
- Direct connection of laptop or personal computer system via standard USB cable.
- Battery backed-up RAM retains system programming upon power loss.
- Total system configuration of 256 controllers allows projects exceeding 6,100 points.
- Optically isolated, fused RS485 communications port for connection with additional controllers.
- Controller network length of 4000 feet.
- 24VAC/VDC power reduces installation cost.
- 5VDC, 1A auxiliary power connection for IPM internet module or other devices.

Options

- Optional plug-on modem for interface through standard voice-grade telephone line.

Controller Details
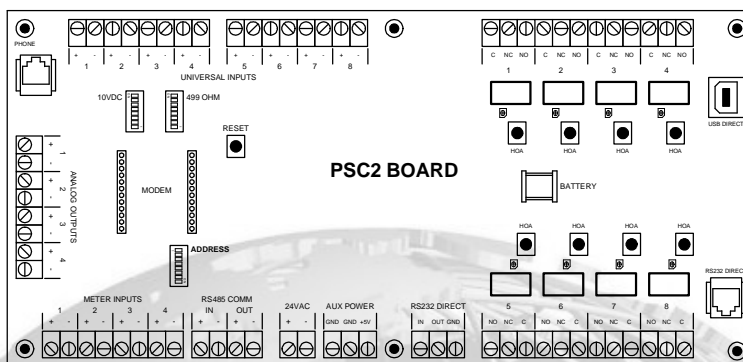
View of PSC2 stand-alone controller

Specifications

Communications Bus:	EIA RS-485 at 57.6K baud on 1 Pair, 18AWG shielded, plenum rated cable	
Power Requirements:	Voltage: Current:	24VAC/24VDC (-10% / 5%), 50/60/Hz 3.2VA
Power Outputs:	5VDC, 1A auxiliary power source	
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 or maintained
Digital Outputs:	(8) Dry contacts	SPDT pilot duty rated 1 amp at 24VAC/24VDC
Analog Outputs:	(4) 0-10VDC or 4-20MA	>/= 1K ohm drive impedance, jumper selectable
Ports:	RS-485 communications bus, optically isolated and fused RS-232 USB direct connect port, 19.2K baud RS-232 direct connect port, 19.2K baud RS-232 modem socket	
Environmental Limits:	Temperature: Humidity (non-condensing):	32°F to 125°F. 95%
Enclosure/Mounting:	(6) Mounting holes with stand-offs for mounting with #8 screws	
UL Listing:	ANSI/UL 916	
Dimensions:	8.5"W x 4.0"H x 1.0"D	
Shipping Weight:	Approximately 0.75 lbs.	

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