

**FEATURES**

- ❖ Single or dual input option jumper
- ❖ Four buffered Outputs
- ❖ 2 3/16" Snap Track Mounting

**APPLICATIONS**

- ❖ Master/slave configuration of a control signal for up to five controllers.
- ❖ Master/slave configuration of two control signals for two additional controllers.
- ❖ Signal buffering to four valve or damper actuators.

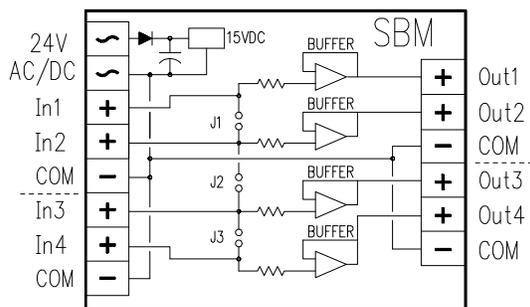
**DESCRIPTION**

The SBM is a Signal Buffer Module that provides 4 (four) buffered output signals from a single input or 2 sets of 2 (two) buffered output signals from 2 (two) input signals, or 4(four) individual inputs & outputs . The SBM only passes the voltage found on it's input, there is no signal scaling available. If scaling is needed the recommend products are: ASM1 for single channel use or MASC for 4 channel scaling.

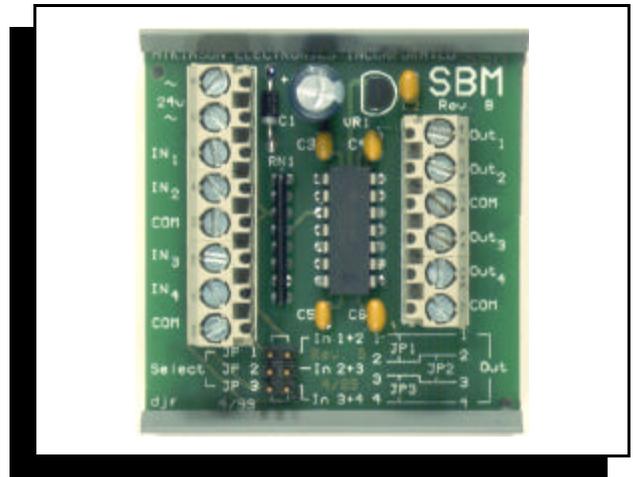
**OPERATION**

The SBM uses an industry standard half wave rectifier power supply in which terminal #2 of AC supply and the input/output signal commons (-) are connected. The SBM has high impedance inputs to avoid any loading affect on input signals. Each output has an op-amp, configured as a voltage follower, able to sync the pull-up voltage provided by the controller's application specific inputs (Staefa's #0-#3).

**WIRING CONFIGURATION**



Note: For single input with 4 output signals, connect jumpers J1, J2, & J3.



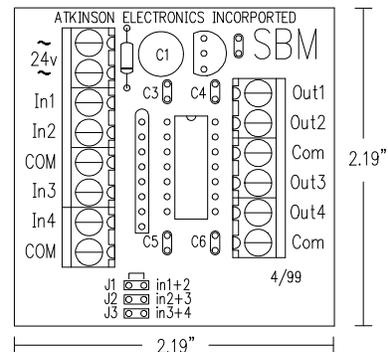
**SPECIFICATIONS**

|                 |   |
|-----------------|---|
| SIZE:           | 2.190" x 2.190" x 1.0" H  |
| MOUNTING:       | 2.187" snap track   |
| POWER:          | 24V AC $\pm$ 15%, 50/60Hz .5VA<br>24V DC @ 20mA   |
| INPUT SIGNALS:  | 1-10V DC or anything in between.  |
| OUTPUT SIGNALS: | Output tracks input signal.<br>1-10V DC op-amp buffered<br>Will sync or source up to 20Ma per output channel. |
| AMBIENT TEMP:   | 0-85°C  |

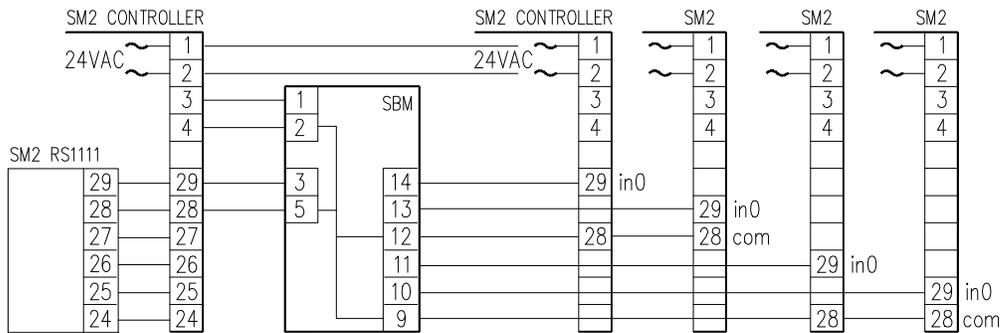
**ORDERING INFORMATION**

**SBM** - Signal Buffer Module 4 Channel

**PHYSICAL CONFIGURATION**

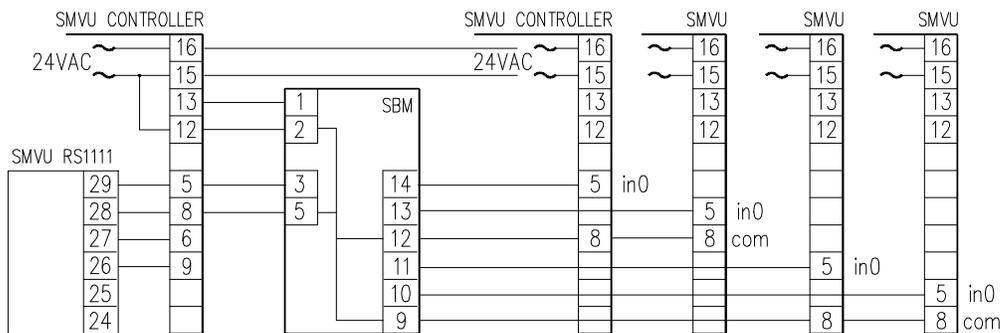


**APPLICATION 1 - PASSING SM2 ROOM STAT SIGNAL TO FOUR ADDITIONAL SM2 CONTROLLERS**



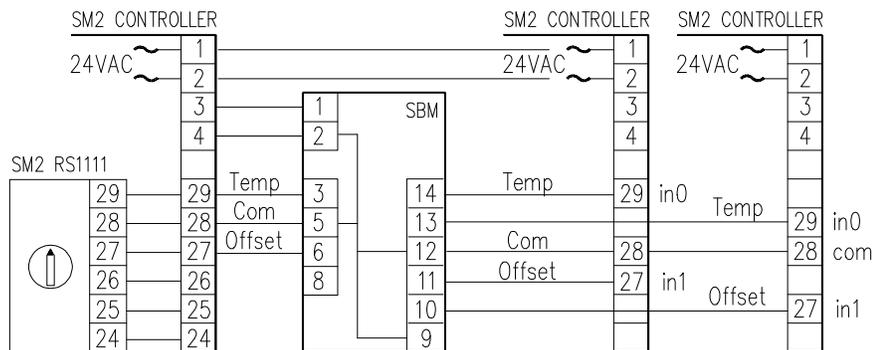
The SBM was designed to provide four buffered outputs to drive input #0 of four Smart 2 controllers from a single master controller and its room sensor (connect jumpers J1, J2, & J3). Terminal 2 of the SBM is common to both input and output common (-) terminals. The Aux 24V AC of the SM2 can be used but polarity must be observed.

**APPLICATION 2 - PASSING SMVU ROOM STAT SIGNAL TO FOUR ADDITIONAL SMVU CONTROLLERS**



The SBM was designed to provide four buffered outputs to drive input #0 of four SMVU controllers from a single master controller and its room sensor (connect jumpers J1, J2, & J3). Terminal 2 of the SBM is common to both input and output common (-) terminals. The Aux 24V AC (terminals 13,12) of the SMVU can be used but polarity must be observed.

**APPLICATION 3 - PASSING TWO ROOM STAT SIGNALS TO TWO ADDITIONAL CONTROLLERS**



The SBM designed to provide two sets of buffered outputs to drive inputs #0 & #1 of two additional controllers from a master controller and its room sensor (connect jumpers J1, & J3). Terminal 2 of the SBM common to both input and output common (-) terminals. The Aux 24V AC (terminals 3,4) of the SM2 can be used but polarity must be observed.