

SELECTRONIX, INC.
16419 199th Court Northeast
Woodinville, Washington 98077-5401
selectronix.us
(425) 788-2979

SLC4000TechNote16_0-10V PotCtl.pdf
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Tech Note 16 Aux 0-10V Potentiometer Control

Purpose:

This tech note describes the circuitry to allow a potentiometer to be used as an additional and alternate command input. *If the potentiometer is to be the sole input to the SLC4000 command input terminals, set the input configuration for Ohmic and connect the potentiometer directly to the command input terminals, TB1 to TB3. No other circuitry is required*

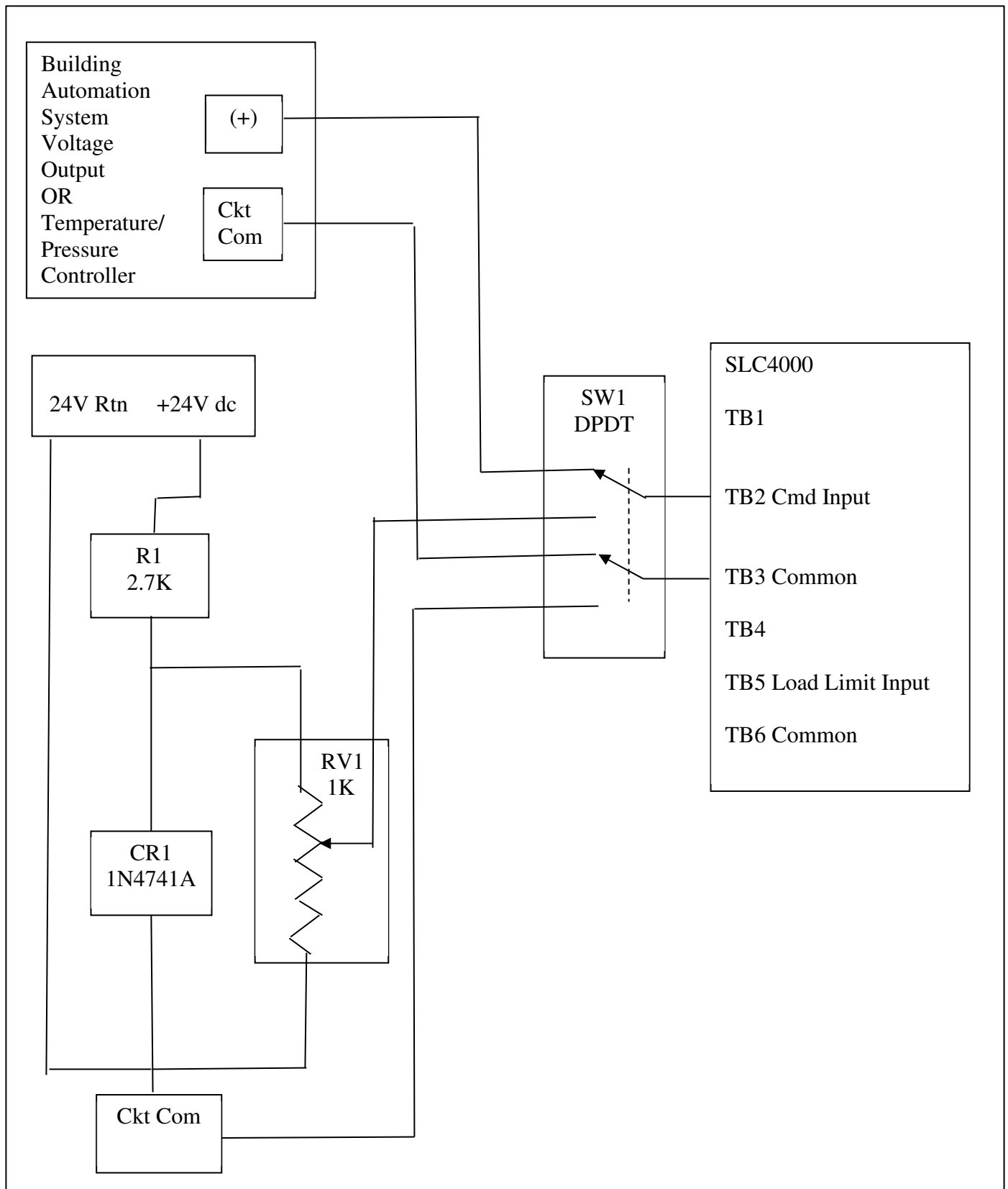
When the Selectronix Building Management Interface (BMI) is being used, the SLC4000 command input terminals controls the output when the BMI “Aux/DDC” switch on the touchscreen is in the “Aux” position.

Circuit Topology

1. An external 0-10V dc signal is desired to drive the SLC4000 command input terminals. The signal source may be from a Building Management System, a temperature or pressure controller AND..
2. A manual method of controlling the SLC4000 unit's output is also desired.

Circuit Requirements

1. External 24V Power Source
 - a. Power required:
 - i. 5 ma
2. Switch, DPDT, SW1
3. Potentiometer, 1K ohm, 2 Watt, single turn, panel mount, RV1
4. Zener Diode, 1N4741A, CR1
5. Resistor, 2.7K, 5% or less, 1/4Watt or greater, R1
6. SLC4000 DIP SW1 Input Configuration set for 0-10V
 - a. SW1-1 OFF
 - b. SW1-2 ON
 - c. SW1-3 ON
 - d. SW1-4 ON
 - e. SW1-5 OFF



Questions? Email techsupport@selectronix.us or call us at (425) 788-2979.