

PENNSYLVANIA

VALUE YOU CAN COUNT ON!

Model 7600 + Set Point Option Card

INTRODUCTION

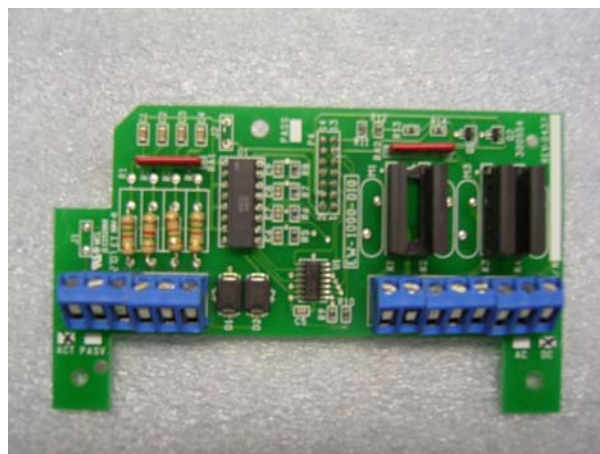
The set point option for the Pennsylvania Scale 7600 + provides relay switch closures that are based on either weight targets or on count targets. There are three usable relays designated K1, K2, and K3 that are used as “target”, “dribble” and “trickle” relays respectively. In addition to the target relays it also provides inputs for the “Zero”, “Tare”, “Print” and “Gross/Net” functions.

The set point option card is available as an “SSR” option, “DCR” option or combinations of the two upon request.

- The SSR option card is designed to switch 120 volts AC (rated at 1 AMP) and the inputs will respond to inputs of 120 volts AC.
- The DCR option card is designed to switch DC voltage up to 24 volts and the inputs will respond to a standard switch closure.

NOTE: It is possible to special order a card with DC inputs and AC outputs or AC inputs and DC outputs.

You may identify how your set point card is set up by looking at the check boxes on the card. The check boxes for the inputs are labeled “ACT” (active, the card is setup for DC inputs) and PASV (passive, the card is setup for AC inputs). The check boxes for the outputs are labeled AC (for AC outputs) and DC (for DC outputs). The example in the picture below shows a card that is set up for DC inputs and DC outputs:



SET POINT PROGRAM SETTINGS

(Refer to the 7000 Series manual for accessing programming mode)

The set point card is setup in program step “SPt 8”. The possible setup selections are:

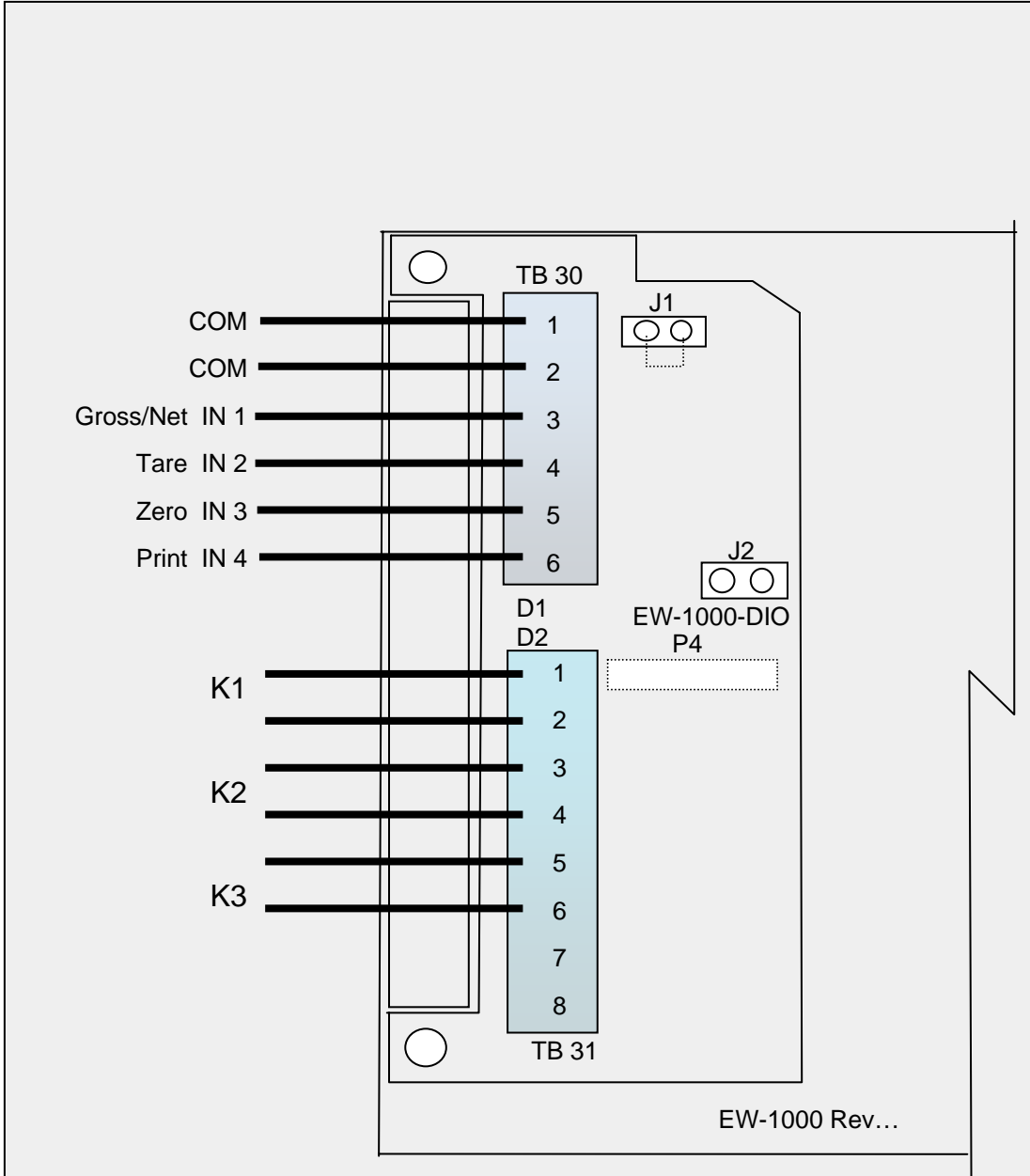
- “OFF” this will turn off the set point feature and is the default setting in the 7600+
- “tr” this selection sets up the K1 relay to a single target based on weight
- “Prtr” Sets up as a single weight target but allows for a pre-act value (an amount of weight for the relay to switch before the target is reached) to be entered
- “Drtr” sets up a fast feed target using K2 and a slow or dribble feed target using K1, all responding to weight
- “Drtk” sets up a fast feed target using K3, a slow or dribble feed target using K2 and a trickle feed target using K1, all responding to weight
- “C tr” sets up the K1 relay to a single target based on count
- “C Prtr” sets up as a single count target but allows for a pre-act value (number of counts for the relay to switch before the target is reached) to be entered
- “C drtr” sets up a fast feed target using K2 and a slow or dribble feed target using K1, all responding to count
- “C Drtk” sets up a fast feed target using K3, a slow or dribble feed target using K2 and a trickle feed target using K1
- “C rang” allows the K1 relay to act like a check weighing set point. A target is entered in count followed by a number of pieces above or below the target. The relay will only be on in the count range or window and off both below the range and above the range. The range selections are 0, 1 or 10 pieces.

Once an above selection is made the next step will be “Out 8.1”. To use your set point card you will need to select “dIO”

ENTERING TARGETS

Setting up target weights or counts after you have programmed your card is done in the normal operating mode. You access the menu by pressing and holding the “SAMPLE SET” button. After a few seconds the 7600 will come up and ask to the target weight or count and/or the dribble, trickle and pre-act values depending on your programming selections above. You simply key in each value as it is asked for and press ENTER after each one. The 7600 will come out of the menu mode after the last value is entered.

SET POINT OPTION CARD WIRING



Wiring inputs to TB20:

For the AC (SSR) card attach the 120 volt common wire to either terminal 1 or 2 and the hot wire, with a momentary switch in the line, to the terminal for the function you want to control. When the momentary switch is closed the scale will respond as if the front keypad button had been pressed.

For the DC (DCR) card wire a momentary switch across either terminal 1 or 2 and the terminal for the function you want to control. When the momentary switch is closed the scale will respond as if the front keypad button had been pressed.

Wiring outputs to TB31:

For the AC (SSR) card run the hot wire for the device to be controlled to desired relay terminals. For example: to wire to K1 run the common wire directly to the device to be controlled and run the hot wire to terminal 2 and then run from terminal 1 to the device to be controlled. This places the K1 relay into the hot wire circuit for the device.

For the DC (DCR) card run the positive wire for the device being controlled to the desired relay terminals. For example: to wire to K1 run the negative wire to the device being controlled and the positive wire to terminal 2 and then from terminal 1 to the device being controlled. This places the K1 relay into the circuit as a switch closure when the target is reached.

NOTE: In most AC applications it is recommended that the set point card relays be used to control a heavy duty slave relay which is then used to control external equipment. Remember that the solid state relays on the card are only rated at 1 amp.

NOTE: The DC relays are also rated at 1 AMP.