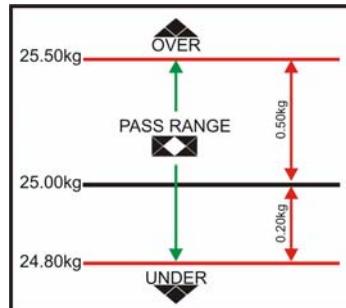


Application Note: 2100 Check weighing

Application:



A weighing machine is to be used in a check weighing system using a 2100. There are three grading zones available (Under, Pass and Over).

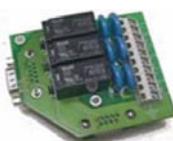


The target weight of the bag is 25kg. If the bag is under weight by 0.20kg or more the UNDER annunciator will display, single beeps will sound and the "UNDER" alarm switches on. If the bag is over weight by 0.50kg or more the OVER annunciator will display, double beeps will sound and the "OVER" alarm switches on. If the bag is within the range 24.80kg and 25.50kg the PASS annunciator will display, the 2100 weight display will flash and the "PASS" alarm switches on.

Components:



2100
12VDC, Panel mount



0227
12VDC Relay output module



0329
IP65 Stainless steel housing

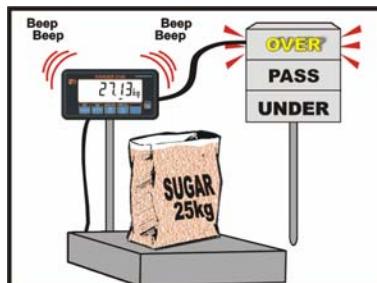


A10001 - A10004
Plug pack

Operation:



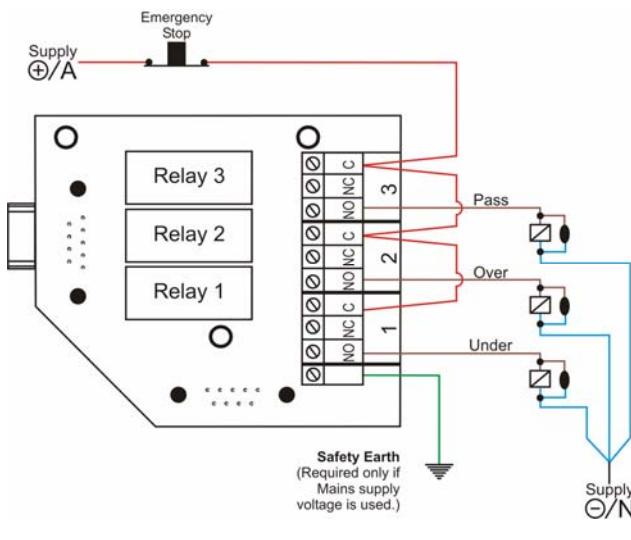
1. The filled bag is placed on the scale. If the weight is less than 24.80kg Relay 1 activates. The UNDER annunciator displays and a single beep sounds.



2. If the weight is more than 25.50kg Relay 2 activates. The OVER annunciator displays and a double beep sounds.



3. If the weight is within the range of 24.80kg and 25.50kg Relay 3 activates. The PASS annunciator displays and the weight reading on the 2100 flashes.

Connection Details:

Emergency stop push button (0123) (Optional)	
<ul style="list-style-type: none"> • Normally closed • Press to latch open • Turn to release Control circuit loads <ul style="list-style-type: none"> • Maximum voltage 240VAC / 50VDC • Maximum current 2A • Example: lamp, relay coil or solenoid valve 	<input checked="" type="checkbox"/>
Spark suppressor (0100) (Optional)	

Configuration:

1. Press and hold the **Power** and **Zero** buttons for two (2) seconds to enter the setup mode.
2. Configure the instrument using the settings described below.

GROUP	ITEM	SET TO	COMMENT
SET.PTS	OPTn A	AGUHS	A = Use Option A (output 1) as the Active level control and under load alarms. G = Use Gross weight (R for Reading which is the displayed weight (gross or net) could also be used). UH = Under High is used for under load alarms. S = Alarm set to activate a Single beep.
	TARG A	24.80 kg	Enter the UNDER weight for the bag (i.e. the lowest acceptable weight).
	OPTn B	AGOHD	A = Use Option B (output 2) as the Active level control and over load alarms. G = Use Gross weight (R for Reading which is the displayed weight (gross or net) could also be used). OH = Over High is used for over load alarms. D = Alarm set to activate a Double beep.
	TARG B	25.50 kg	Enter the OVER weight for the bag (i.e. the highest acceptable weight).
	OPTn C	P---F	P = Use Option C (output 3) as the Pass (i.e. other underweight or overweight conditions are not present). - = Setting not required as Pass option is set. F = Alarm set to Flash the weight display on the 2100
	TARG C		Not used in this setup.

Note: When Relay 3 (output) is used as a Pass, under load is disabled when weight is within the Zero Dead Band.

For more information refer to the Reference Manual for this product