

Thermo Scientific VersaWeigh® Electrical Option Pack

Key Words

- VersaWeigh
- Alarm Types
- Electrical
- Option Pack

A number of options are available to enhance the functionality provided in the basic Thermo Scientific VersaWeigh electrical services configuration. The options purchased as a set are more cost effective than purchasing combinations of individual options.

Unless stated otherwise below, all input and output connections are via BIO modules.

3-Color High-Intensity LED Indicator

This solid-state LED indicator brightly indicates the category each package is classified into after weighing. Clearly viewable from a distance, standard color codes are white for on-weights, yellow for under-weights and blue for over-weights.

Alarm Horn

Any alarm type can be set to create an audible alarm. Place a green check mark under the "Sound" heading adjacent to the alarm "Type" to activate an alarm mode. (Refer to the alarms configuration screen shot.)

Alarm Light

A red indicator can be set to illuminate any condition designated as an "Alarm." (Refer to "need to calibrate" in the alarms configuration screen shot.)

Emergency Stop Button

A yellow/red Emergency Stop button is installed on the system within reach of the operator. Typically, only one is used that would always be within reach of the operator's normal position. On particularly long systems multiple emergency stop locations may be required.

ID	Name	Type	Sound	Record
1	ZERO OFFSET BEYOND LIMIT	ShutDown	✓	✓
2	NEEDS REZERO	Alarm	✗	✓
3	NEED TO CALIBRATE	Warning	✓	✓
5	TOO MANY CONSECUTIVE R...	None	✓	✓
6	WARM START	None	✗	✓
7	COLD START	ShutDown	✓	✓
8	EMERGENCY	Alarm	✗	✓
9	SAMPLE WEIGHT LOST	Alarm	✓	✓
10	WE DIAGNOSTICS	Alarm	✗	✓
11	OVER TEMPERATURE	Alarm	✗	✓
12	SPEED ERROR	Alarm	✗	✓

Upstream/Downstream Equipment Interface

Two (24VDC) inputs to the CBO module are provided for connection to upstream equipment. If either input is activated, the checkweigher will shut-down. Similarly, a single normally open (NO) relay output from the CBO is provided that supplies a signal to downstream equipment whenever the checkweigher conveyors are running. Auxiliary I/O – An output (24VDC PNP) provides a “checkweigher ready” output signal, which is defined as no active faults, product selected and calibrated, and conveyors running with 5% of expected speed.

Separately, up to three (24VDC) inputs are provided that link into the checkweigher's fault management and reporting system. Events (unrelated to the checkweigher operation) can be connected to these inputs and they will be reported by the checkweigher. The three inputs

can have a user-defined text message (that will be displayed and logged at the checkweigher) created and the action that will result can be similarly set as “warning,” “alarm,” “shutdown” or none.

Selectively, the audible alarm (if fitted) can be activated and the event can be written to the system fault log. Note that these same inputs are used for the low air pressure and line back-up detection options. If they are in use, all three may not be available to the customer.

External Rejects

Two additional inputs can be made to the system connecting other upstream inspection devices. This configuration allows other devices to create reject conditions at the checkweigher, irrespective of product weight. These rejected packages will not be included in the checkweigher package statistics, even though they may have been rejected after the checkweigher. The rejects, however, will be classified as

metal rejects due to the inputs most commonly used for metal detectors. These inputs are used for the metal detector/checkweigher combination systems so they may not both be available to the customer. Based on the use of these inputs, if required, the checkweigher can facilitate the use of a reject device on the in-feed conveyor of the system.

Auto-Energy Dump on E-Stop

In addition to stopping the conveyors, all forms of energy (electrical and pneumatic) will be isolated when an emergency stop condition occurs. This option is only available with the Emergency Stop option.

Incoming Power Rotary Isolator

A lockable rotary isolator allows power throughout the system to be disconnected. It is installed on the side of the electrical service box. If this option is not provided and depending on prevailing local electrical safety regulations/codes, the installer may be responsible for providing the disconnection.

For More Information

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