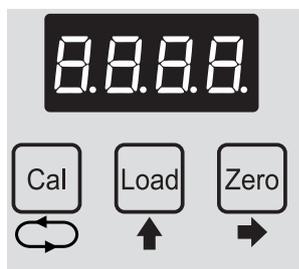
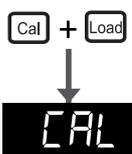


EWS-102 CONTROL UNIT - MULTI ANALOG

SYSTEM SETUP



To begin the system setup, press the **Cal** and **Load** buttons together.



Enter the system setup menu.



Select the first menu item.

CAP

CAP indicates the elevator maximum capacity. To view the current value press →

AL 1

AL 1 is the load value to trigger Alarm Relay 1. To view the current value press →

AL 2

AL 2 is the load value to trigger Alarm Relay 2. To view the current value press →

AL 3

AL 3 is similar to Alarms 1 & 2 but allows negative values to be entered. When editing the most significant digit, instead of rolling over from 9 to 0 it included the minus sign option.

hyst

Defines the value by which the load in the lift has to drop to reset the instrument, once the alarm has been triggered.

dLY

Defines the time from the control signal input is activated and the car load is stored. Default =2, the available settings are: 0 = 0sec, 1 = 0.5sec,7 = 3.5sec.

dISP

Option for turning the display on or off when the lift is moving, the door close signal activates. To change the setting, press ↑ and use → To toggle between On and OFF.

FIL

The filter value determines the update rate and damping factor. The available settings are: 0 = 0.4sec, 1 = 0.8sec, 2 = 1.2sec, 3 = 1.6sec.

beep

An internal sounder beeps when an overload alarm is triggered or when the keypad is pressed. To change the setting, press ↑ and use → To toggle between On and OFF.

SES

Option to turn the systems reset function on or off. Leave OFF during system set up and zero and load calibration. Select ON after calibration and before entering the lift into service. To change the setting, press ↑ and use → To toggle between On and OFF.

Out

Select the required Analog output . Refer to page 4 for available outputs

The system setup menu allows you to set and adjust various system parameters.

Navigation

Use the ↑ button to step through the menu items. Press → to view the menu item

Editing Values

When a value is displayed, use → to select the digit to edit (selected digit flashes) and use ↑ to step through the values for that digit.

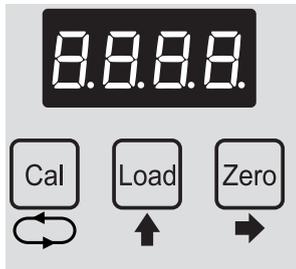
Press ↻ to save a change. The system will revert to the operational display after approx. 10 seconds. Alternatively, return to the operational display by pressing ↻ twice

Notes

- 1 To calibrate the EWS 102, a link must be fitted to the control signal input terminals
- 2 Until a sensor is connected, the EWS will display *ErrE* preventing access to the system setup and calibration menus
- 3 Calibration and set up can be carried out on any floor, but the EWS 102 must be re-zeroed at the lowest floor to finalise the Analog output calibration.

EWS-102 CONTROL UNIT - MULTI ANALOG

CALIBRATION ZERO



To begin the zero calibration, press the **Cal** and **Load** buttons together.

Cal + **Load**



Press the **Zero** button to enter the zero calibration menu.

Zero



Press the **Cal** button

Cal



Count down

The instrument then counts down from 10 to 1 to allow time for the operator to ensure that the elevator cabin is empty.



The "Zero" point has now been calibrated and stored.

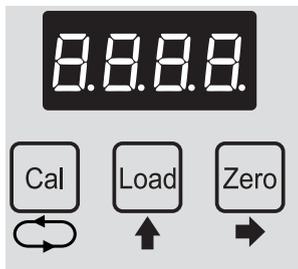
CAL indicates that the calibration is complete (remains for 10 seconds).



Press **Load** within 10 seconds to proceed to the Load Calibration.

See Note 3: After the EWS 102 calibration and setup has been completed, place the the lift at the lowest floor level and rezero following the process on this page, this will finalise the Analog output calibration.

EWS-102 CONTROL UNIT MULTI ANALOG CALIBRATION LOAD



To begin the load calibration, press the **Cal** and **Load** buttons together.

Cal + **Load**



Load

Press the **Load** button to enter the load calibration menu.



Load Calibration

Cal

After placing the known load within the elevator cabin, press the **Cal** button to proceed.



When the dashes are displayed, set the value of the required load in kilograms. Use the **→** button to select the required digit (selected digit flashes) and use the **↑** button to set the required digit value.

→ **↑**

For example: Using a known load of 75Kg

→ → ↑ x7 → ↑ x5



Cal

To complete the action, press the **Cal** button.



Count down

The instrument then counts down from 10 to 1.



Upon completion, the screen will display CAL for approximately 10 seconds and then the system will return to Operation Mode. The load has now been calibrated.



See note 3 to finalise Analog calibration

EWS-102 CONTROL UNIT MULTI ANALOG

SYSTEM SETUP



Analog output Selection

There are seven selectable output ranges available. To view the current value press **➡** then use **⬆** to scroll through output types. Select and save required option by pressing **↻**

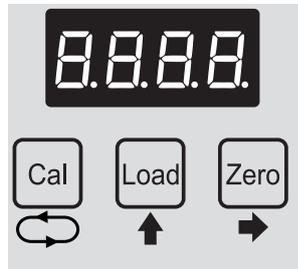
- Output type 4-20mA. 4mA = no load, 20mA = full load
- Output type 0-20mA. 0mA = no load, 20mA = full load
- Output type 0-20mA. 0mA = no load, 24mA = full load
- Output type 0-5V. 0V = no load, +5V = full load
- Output type +/-5V -5V = no load, 0v + half load, +5V = full load
- Output type +/-10V -10V = no load, 0v + half load, +10V = full load

ERROR CODES

CODE	ERROR	CAUSE/SOLUTION
Err 1	Sensor Signal Input - Negative	Reverse connection of sensor signal leads
Err 2	Insufficient Sensor Signal	Installation Error - Contact Garan
Err 3	Sensor Offset Too High - Positive	Installation Error - Contact Garan
Err 4	Sensor Offset Too High - Negative	Installation Error - Contact Garan
Err 5	Trying to calibrate without Control Signal link	Fit link between control signal terminals
Err 6	Sensor not connected to EWS	Connect sensor/check sensor wiring

EWS-102 CONTROL UNIT

SYSTEM SETUP



To begin the system setup, press the **Cal** and **Load** buttons together.

Cal + Load



Enter the system setup menu.

Cal



Select the first menu item.



CAP indicates the elevator maximum capacity. To view the current value press ➡



AL 1 is the load value to trigger Alarm Relay 1. To view the current value press ➡



AL 2 is the load value to trigger Alarm Relay 2. To view the current value press ➡



AL 3 is similar to Alarms 1 & 2 but allows negative values to be entered. When editing the most significant digit, instead of rolling over from 9 to 0 it included the minus sign option.



Defines the value by which the load in the lift has to drop to reset the instrument, once the alarm has been triggered.



Defines the time from the control signal input is activated and the car load is stored. Default =2, the available settings are: 0 = 0sec, 1 = 0.5sec,7 = 3.5sec.



Option for turning the display on or off when the lift is moving, the door close signal activates. To change the setting, press ⬆ and use ➡ To toggle between On and OFF.



The filter value determines the update rate and damping factor. The available settings are: 0 = 0.4sec, 1 = 0.8sec, 2 = 1.2sec, 3 = 1.6sec.



An internal sounder beeps when an overload alarm is triggered or when the keypad is pressed. To change the setting, press ⬆ and use ➡ To toggle between On and OFF.



Option to turn the systems reset function on or off. Leave OFF during system set up and zero and load calibration. Select ON after calibration and before entering the lift into service. To change the setting, press ⬆ and use ➡ To toggle between On and OFF.

Save and return to normal operation by pressing ↻ twice

The system setup menu allows you to set and adjust various system parameters.

Navigation

Use the ⬆ button to step through the menu items.

Press ➡ to view the menu item

Editing Values

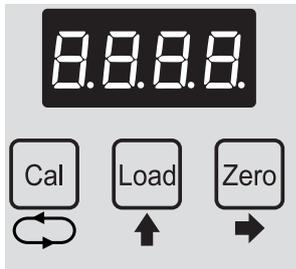
When a value is displayed, use ➡ to select the digit to edit (selected digit flashes) and use ⬆ to step through the values for that digit.

Press ↻ to save a change. The system will revert to the operational display after approx. 10 seconds. Alternatively, return to the operational display by pressing ↻ twice

Notes

To calibrate the EWS 102, a link must be fitted to the control signal input terminals

Until a sensor is connected, the EWS will display *Err5* preventing access to the system setup and calibration menus
For further information refer to EWS 102 User Manual



To begin the zero calibration, press the **Cal** and **Load** buttons together.

Cal + **Load**

CAL

Zero

Press the **Zero** button to enter the zero calibration menu.

Zero

Cal

Press the **Cal** button

10

Count down

The instrument then counts down from 10 to 1 to allow time for the operator to ensure that the elevator cabin is empty.

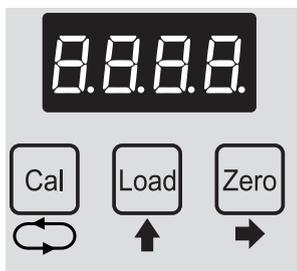
1

The "Zero" point has now been calibrated and stored.

CAL

CAL indicates that the calibration is complete (remains for 10 seconds).

Press **Load** within 10 seconds to proceed to the Load Calibration.



To begin the load calibration, press the **Cal** and **Load** buttons together.

Cal + **Load**



Load

Press the **Load** button to enter the load calibration menu.



Load Calibration

Cal

After placing the known load within the elevator cabin, press the **Cal** button to proceed.



When the dashes are displayed, set the value of the required load in kilograms. Use the **→** button to select the required digit (selected digit flashes) and use the **↑** button to set the required digit value.

→ **↑**

For example: Using a known load of 75Kg

→ **→** **↑**x7 **→** **↑**x5



Cal

To complete the action, press the **Cal** button.



Count down

The instrument then counts down from 10 to 1.



Upon completion, the screen will display CAL for approximately 10 seconds and then the system will return to Operation Mode. The load has now been calibrated.

Firmware 2.5 rev 1 subject to alteration



EWS-102 CONTROL UNIT

ERROR CODES

CODE

ERROR

CAUSE/SOLUTION

Err1

Sensor Signal Input - Negative

Reverse connection of sensor signal leads

Err2

Insufficient Sensor Signal

Installation Error - Contact Garan

Err3

Sensor Offset Too High - Positive

Installation Error - Contact Garan

Err4

Sensor Offset Too High - Negative

Installation Error - Contact Garan

Err5

Trying to calibrate without Control Signal link

Fit link between control signal terminals

Err6

Sensor not connected to EWS

Connect sensor/check sensor wiring

Notes

