

HIGH LEVEL ALARM CONTROLLER INSTALLATION & OPERATION GUIDE

Model SM394v1 Document revision 1 March 2018



General description

The **SM394** High Level Alarm will provide an audible and visual indication when a level sensor contact closes signifying that a critical level has been reached in a storage vessel. An Alarm Mute feature allows for deactivation of the audible alarm for an adjustable time delay. An Auxiliary Alarm output relay allows alarm events to be extended to external alarm networks

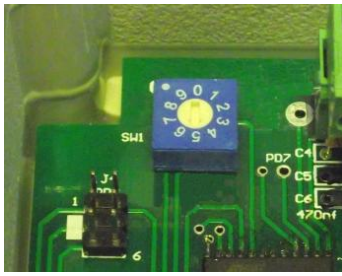
METHOD OF OPERATION

When power is applied to a controller unit, it immediately begins to check the status of the level probe connected between terminals COM and PR1. In its normal state, this sensor should be open circuit. When a critical level has been reached the sensor must assume a closed circuit state between these terminals. This will place the SM394 into Alarm Mode.

During Alarm Mode, the red lamp on top of the controller will perform a triple-flash every three seconds. The electronic beeper will perform a triple beep at the same rate.

When the level within the storage vessel has fallen enough to send the sensor switch open, the alarm will automatically cease.

While it is important to draw attention to a level problem, there may also be logistical issues in getting a given tank level down and the pulsing alarm sound can get quite disturbing to other staff and neighbours. An ALARM MUTE button has been provided to block the alarm sound and release the aux alarm relay contact. It will do this for an adjustable number of hours, as per the position on an internal setting switch.



Mute delay selection

The Alarm Mute delay time switch may be set to between 1 and 10, using a small flat-blade screwdriver in order to select a mute delay appropriate to the installation. The default setting is 5 for a 5 hour delay. A setting of zero provides for a 10 hour delay.



Bottom view showing the ALARM MUTE button and alert beeper

SM268 SPECIFICATIONS

Cabinet Height/Width/Depth	126 x 165 x 78mm
Unit weight	650 g.
No. of pumps supported	2
Supply Voltage	240VAC, 50Hz
Supply Current	10A max
Pump Capacity	1500W (one pump at a time)
EMC (C-tick) compliance	N12656
Electrical Safety compliance	CS03057V (AS3100)

WARRANTY INFORMATION

A warranty period of 12 months applies to the pump control system from the date of installation. This warranty becomes void where: (A) The unit has been damaged by excessive and unreasonable impacts, or (B) Water damage has resulted from an ingress of water caused a poor cable seal (fitted by an installer), or (C) Water damage has resulted by exposure to weather where a door has not been fully closed, or (D) The controller has been used for an application other than that specified in the installation document.

The warranty implies that a repair or replacement will be given when the defective unit is returned to the supplier. The warranty does not cover delivery and handling charges, compensation for time lost, damage caused by incorrect wiring during installation, or damage to other plant and equipment at the installation site.

Appendix 1 – Resetting the SM268 Hour Meter

This is a special sequence that will allow service personnel to erase the present hour meter values back to **00000:00:00**. Normally it is not desirable for the customer to have access to this feature so that a true reading of pump longevity can be measured.

It is intended to be used whenever a new pump is installed on a system.

Step 1 Set the **LK1** option link into Position '**B**'

Step 2 Set the **Display Option** switch to **Position 9**

Step 3 To reset the **Pump 1** hour meter to zero press the **Motor Jog** button.
or

Step 3 To reset the **Pump 2** hour meter to zero press the **Alarm Mute** button.

Step 4 Set the **Display Option** switch to '**5**' to confirm the hour meter has been reset

Step 5 Set the **LK1** option link into Position '**A**'

Step 6 Set the **Display Option** switch back to a normal viewing position

As the corresponding meter is cleared to zero and saved to permanent memory, a brief double-beep confirmation will be heard from the LCD display
