



# SM256 DUAL PUMP CONTROLLER INFORMATION BRIEF

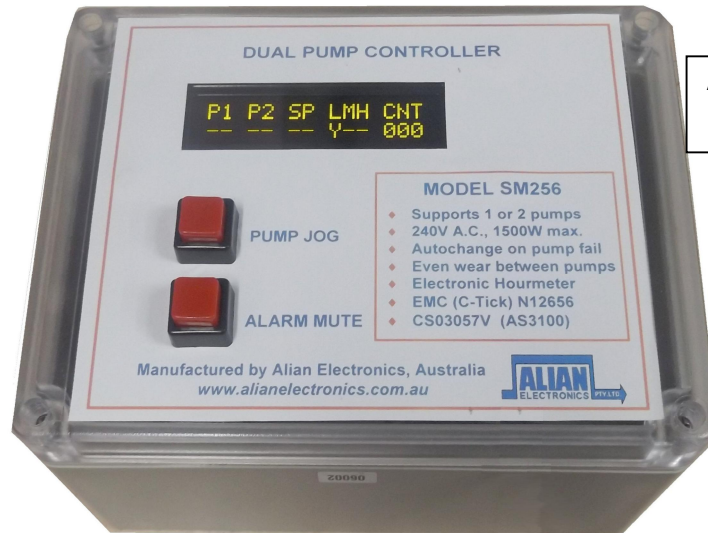
Release 5, May 2020

Manufactured in Australia by Alian Electronics Pty. Ltd.  
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N12656



AS3100 ACREDITED  
CS03057V

## GENERAL DESCRIPTION:

This control module is intended for use with wastewater management systems. Its basic role is to monitor a level probe for a sign that the wastewater in a storage tank has reached a defined level. The controller responds by activating a pump until the wastewater in the tank is reduced or removed. Where two pumps have been fitted, pump operation will alternate with each cycle. Where a second level probe detects a very high level in the tank, both pumps will be activated and a high level alarm will be triggered.

A secondary feature of this system allows for an automatic spray washdown of the interior of the tank after an adjustable 1-6 hours after the last normal pump sequence.



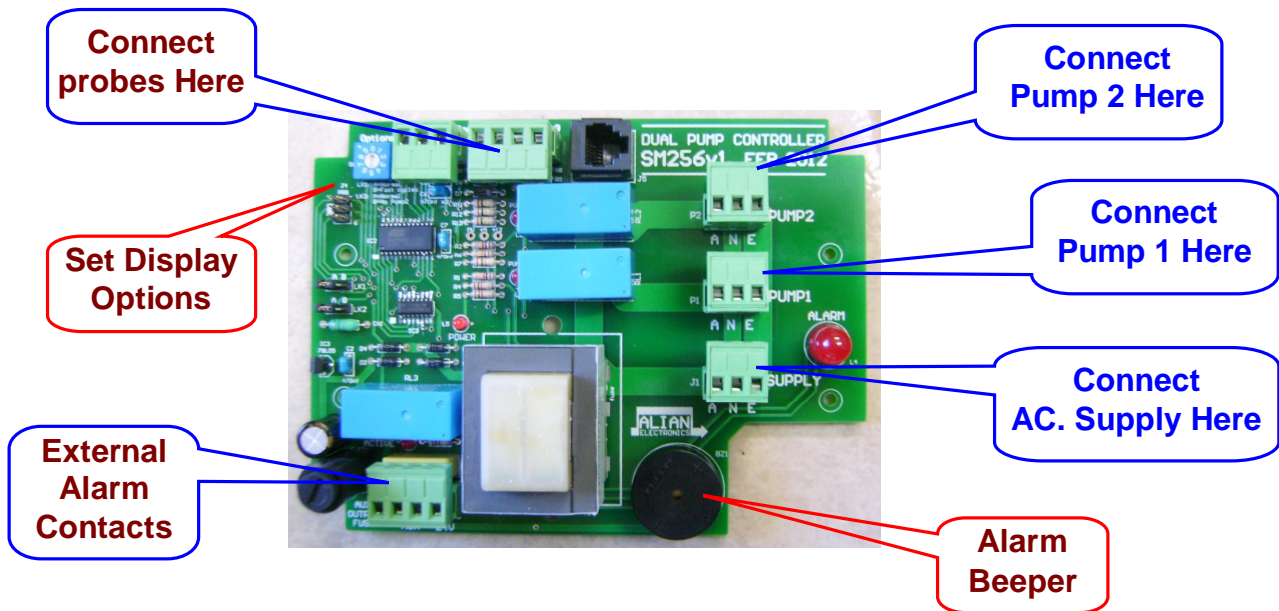
## OTHER FEATURES

The control unit has several presettable options that may be engaged by the installer to suit a range of field installations. A Liquid Crystal Display (LCD) provides additional information about the status and operation of the unit. By using this display, an internal Hour Meter may be viewed which tracks the number of hours and minutes that each pump has operated since the system was first installed.

If one pump should fail, this event is quickly detected by the flow sensor. The alternate pump is automatically engaged and a visual and audible warning will sound a slow 'beep' to alert operators of a problem. The display will indicate which pump has failed. Should both pumps fail, another more stern Double-beep warning is generated.

Pressing the **Pump Swap** button will cancel any alarms and force a transition to the alternate pump. Pressing the **Alarm Mute** button will suspend the audible warning for 6 hours.

When any alarm is activated, a 10Amp relay contact closes and may be used to generate external or remote alarms, suitable for connection to an automatic SMS or paging system.



The SM256 controller unit features an advanced microprocessor controller bonded to the backplane within the enclosure. It will support **one or two single phase 240 VAC pumps rated up to 1500 Watts**. The controller unit is housed in a tough IP66 rated enclosure. Using suitable cable entry glands, cable entry may be effected via the side or rear of the enclosure.

For ease of access, electrical connections are made via high quality unpluggable terminal blocks.

The controller is fully compliant with Australian AS3100 electrical safety standards (CS03057V) and with Electromagnetic Compatibility, EMC standards. (C-tick no. N12656)



A small rotary switch on the controller backplane (shown left) may be rotated to one of ten positions to engage various display and functional test options.

A 2-position option link may be moved to a diagnostic mode to 'fast forward' pump changeover events to 20 second intervals so that maintenance staff may quickly check the integrity of the installation.

A second option link forces the controller into a 'Single Pump' mode where only one pump is fitted or where a secondary pump may safely be removed for service.

A full electronic 'Hourmeter' is standard with each controller. It records hours of operation for each pump since the system was first installed. The hour meter data is stored indefinitely in a special memory which requires no backup battery.



The enclosure size is 125mm high, 165mm wide and 78mm deep.

#### *Other Pump control products:*

- SM96 heavy duty single phase pump control for waste water tanks and sumps
- SM99 Small-medium sized single phase pump control for tanks and sumps
- SM199 Small-medium sized single phase Dual Pump control for tanks and sumps
- SM268 Small-medium sized single phase Dual Pump control for recirculating pumps
- SM202 High Level alarm using conductivity probes or float switches

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