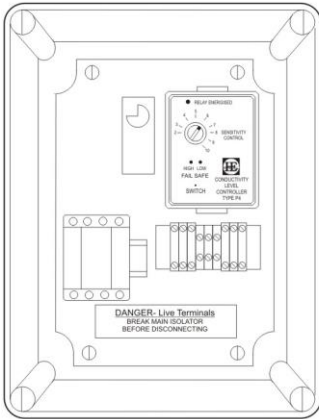




# HAWKER LEVEL CONTROL SYSTEMS

## Special Purpose Level Controllers for Conducting Liquids AC Plus Level Control and Pump Starter Panels

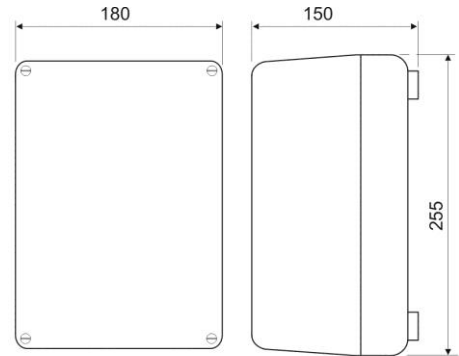
### MMO



### Models Available

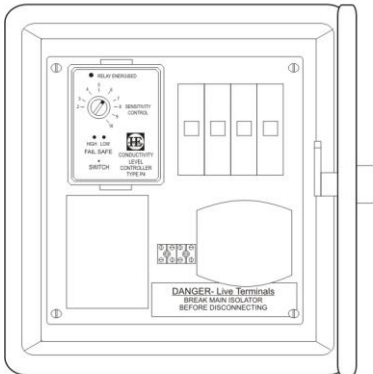
**MMO** for single phase pump motor up to 2.2kW (3hp) comprising:  
Plastic weatherproof enclosure with clear lid  
P4 level controller plus contactor. All pre-wired to terminals.

- Extras available  
**/T** Timer for single electrode operation  
**/P** Push button to restart manually.



MMO in plastic enclosure to IP66/67

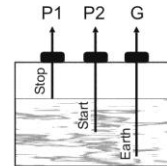
### MM1 and MM1/3



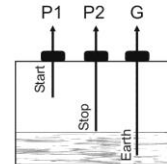
**MM1** for single phase pump motor up to 4kW (5.5hp).

**MM1/3** for 3 phase 4 wire supply voltage.  
Pump motor up to 7.5Kw (10hp).

### Electrode Connections

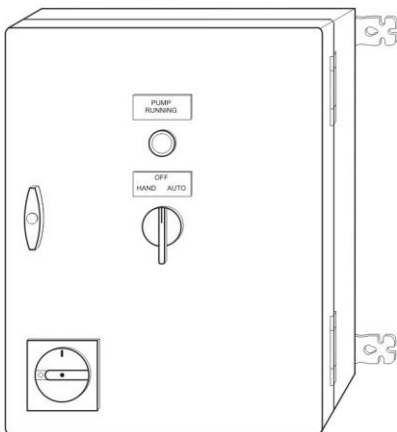


Pumping in Between Two Levels

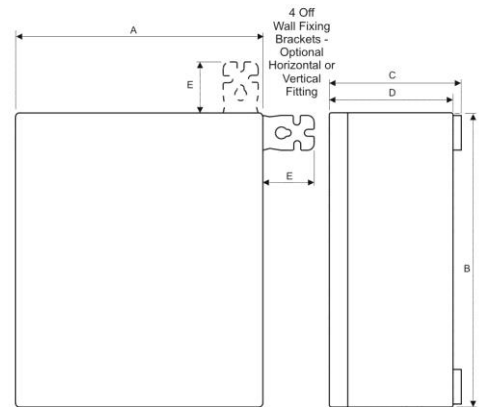


Pumping out Between Two Levels

### MM3



**MM3** for 3 phase 3 wire supply voltage.  
Pump motor up to 7.5kW (10hp).  
Complete with isolating transformer.  
Extras available  
**/I** Door locking isolator  
**/O** Overloads.  
**/S** Hand-off-auto switch  
**/L** Pump running light



	A	B	C	D	E	Weight	
MM1 & MM1/3 (Shown)	300	300	160	150	62	7kG	Housed in Sheet Steel Enclosures to IP55 or IP65
MM3	300	400	160	150	62	9kG	

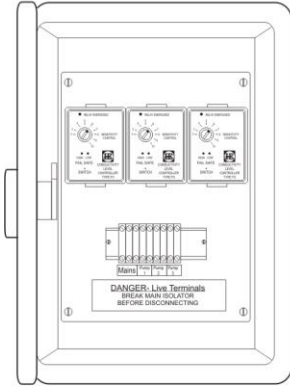
DIMENSIONS SHOWN IN MILLIMETRES



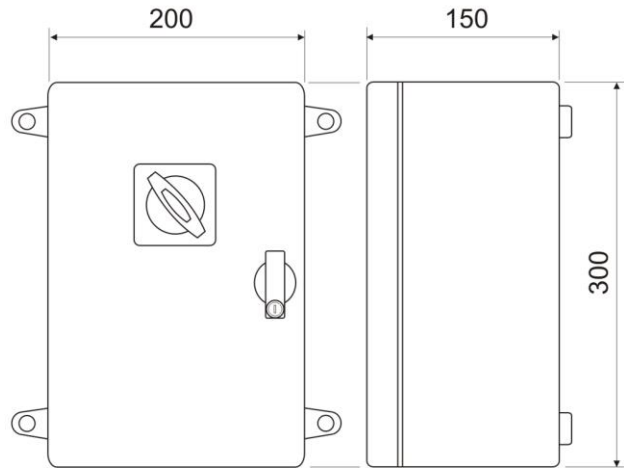
**HAWKER**

**LEVEL CONTROL SYSTEMS**

**AC8**  
3 Pump Controller



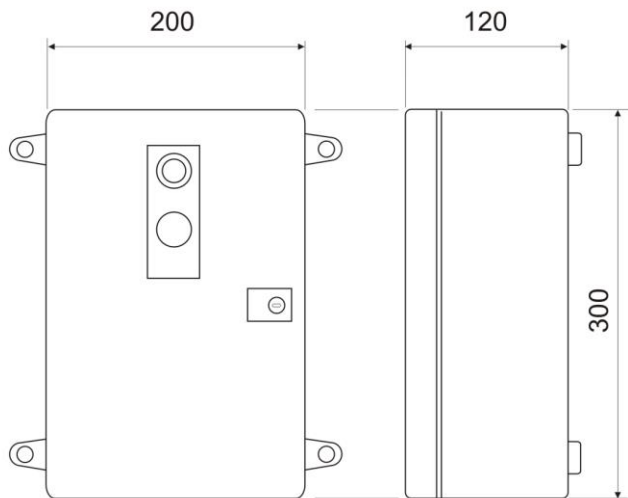
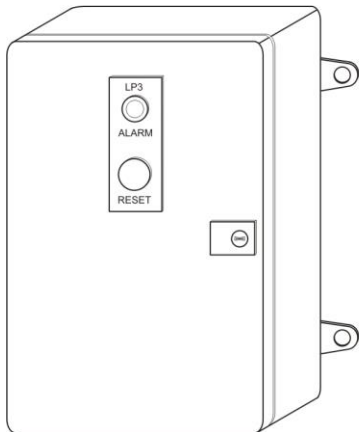
**AC8**  
Sheet Metal Enclosure



Wall mounting level control unit designed for 3 pumps operating in cascade which start stop at requisite level set by electrode lengths. 1 : 2 : 3, 2 : 3 : 1, and 3 : 1 : 2. **AC8/L** pumping out applications (FSL). **AC8/H** pumping in applications (FSH)

**LP3**  
Sheet Metal Enclosure

**LP3**



**LP3** pump dry running protector. Controlled by a small sensor in the pump suction line. Adequate safeguards against pump priming period, aeration etc. Integral and remote alarms. Available as chassis or in a sheet metal enclosure. Supply voltages 110V or 230V, 50Hz, AC. See application notes O & M 62 for connection diagrams for the above controller

This product has been designed and complies to the relevant standards as listed in its certificate of conformity. The installer/user must ensure compliance.  
The crossed out bin symbol, placed on the product, reminds you of the need to dispose of the product correctly at the end of its life.  
Because of continuing development we reserve the right to change the specifications without notice

**HAWKER ELECTRONICS LTD.**

57 The Avenue,  
Rubery Industrial Estate,  
Birmingham B45 9AL, ENGLAND  
Telephone: +44 (0)121-453-8911 Fax: +44(0)121-453-3777  
email: info@hawker-electronics.co.uk www.hawker-electronics.co.uk



FM 10000



BRITISH MADE