OVERALL SPECIFICATION

Protection: ..... IP65.

Material (enclosure): ..... Modified Polyamide 66.

Mounting Thread: ..... 1" BSP Taper.

Voltage: ..... 115/230V ac 50/60Hz. (+7.5%. -15%).

Rating: ..... 2VA.

Operating Temperature: -10ºC to +50ºC.

Humidity: ..... 90%RH.

Output: ..... S.P.C.O. contacts rated at 3A 240V ac non-inductive.

Guarantee

The equipment is covered by a 12 months guarantee from the date of shipment. Any faults arising due to faulty materials or workmanship, within the guarantee period, will be corrected free of charge providing the equipment is returned to us carriage paid.

Certificate of Conformity

The equipment covered by these instructions has been manufactured and tested in accordance with our quality assurance procedures and conforms fully with our published specification.

Health and Safety

Provided that the equipment covered by these instructions is installed and operated as directed, it presents no hazard and conforms fully to health and safety regulations.

CE

THIS PRODUCT CONFORMS TO THE REQUIREMENTS FOR CE MARKING

When this product is incorporated into other machinery or apparatus, that apparatus must not then be put into service (in the E.C) until it has been declared in conformity with the appropriate E.C Directive/s.

SYNATEL
INSTRUMENTATION LTD

LLOYD'S REGISTER QUALITY ASSURANCE ISO9001

UKAS QUALITY MANAGEMENT 001

Synatel Instrumentation Ltd., Walsall Road, Norton Canes,
Cannock, Staffs. England. WS11 9TB.
Tel: +44 (0) 1543 277003 * Fax: +44 (0) 1543 271217 * Web: www.synatel.co.uk

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SYNATEL
INSTRUMENTATION LTD

DIGIMHO LEVEL CONTROLLER

Manual M2238

OPERATING INSTRUCTIONS

M2238 DIGIMHO LEVEL CONTROLLER

General
The DIGIMHO is a fixed point level controller operating on the resistance principle.

Assembly
The self contained DIGIMHO is supplied complete with probe. the probe should be screwed onto the fixing stud. Note that a thread locking compound has been coated to the fixing stud. This will fully harden 20 minutes after fitting the probe rod.

Supply
DIGIMHO operates on 110/230 V ac supplies, and may be wired in ordinary unscreened cable of any length. A supply **EARTH** (Ground) is **ESSENTIAL.** (Note: Metallic containers, or any metallic parts of non-metallic containers should be bonded to earth (ground). Power consumption 2VA.

Fusing
The DIGIMHO should be fed from a supply fused at 5A maximum.

Output
Single pole changeover voltage free contacts rated at 2.5A 240V ac non-inductive.

Installation
The probe may be installed at any angle, but care must be taken to ensure that the exposed end of the power shield protrudes into the container. Where sticky materials may be encountered, the probe should be angled downwards to aid material flow.

Wiring
Two 20mm cable entries are provided, one of which is blank. The blank may be drilled out if required, it must not be knocked out. The unit must be wired to supply and earthed (grounded) in accordance with the appropriate electrical regulations.

Wire to the terminal block using the connectors shown. Note, if the unit is set for high level fail safe operation, the relay is de-energised with material present, if set to low level fail safe, the relay is energised with material present.

Ensure that a link is fitted between terminals 11 & 12. (Note: if sequence high/low level control is required, request DIGIMHO SEQUENCE LEVEL CONTROL manual. This will give the correct connections required to terminals 11 & 12 in place of the normal link).

IMPORTANT: The container must be conductive, and earthed (grounded), or an earth (ground) rod must be inserted into the container/vessel.

SETTING UP INSTRUCTIONS

1) Ensure that the unit is installed and wired correctly.

2) Apply power.

3) The bin/container should be filled, to cover the probe.

4) Ensure that all the switches are in the OFF (down) position.

5) Operate switch 6 and wait 2 seconds to see if the probe covered light goes out.

6) If it does not then slide the switch back to the OFF position.

7) Repeat step 5 using switch 5, then switch 4 etc. until a switch is found that extinguishes the probe covered light.

8) When this switch is found, slide it back to the OFF position and switch ON the preceding switch to complete the setting up.

9) Example: If switch 4 extinguishes the light, then switch 5 (only) should be switched ON.

10) Note: If none of the switches extinguish the light then select switch 1 (only).

11) Note: If switch 6 extinguishes the light then switch all switches to the OFF position.