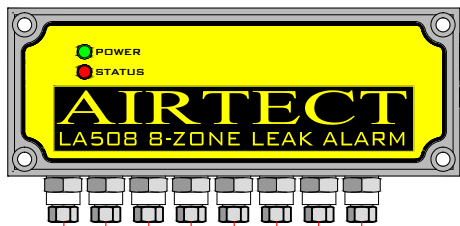


PRECISION REGULATOR

CLEAN / DRY COMPRESSED AIR (4-10 BAR)

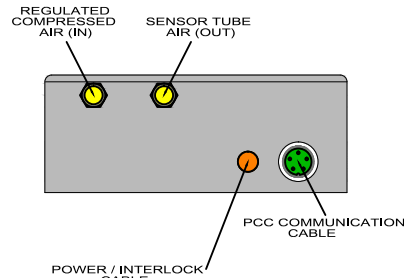
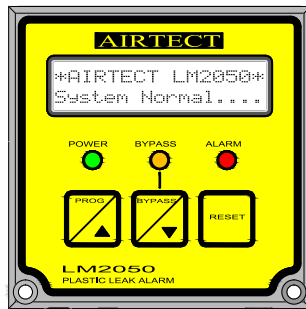
(SET PRESSURE TO 2 PSI)

HOT RUNNER MANIFOLD LA508 / 516



- 1) FILE SENSOR TUBE FLAT
- 2) ENSURE 1MM CLEAR HOLE
- 3) PUT ON SACRIFICIAL TEFLON SLEEVE
- 4) PLACE SENSOR TUBE CLOSE TO NOZZLE

INSTALL SENSOR TUBES AT LIKELY LEAK LOCATIONS
(CHOOSE CAREFULLY BASED ON MOULD DESIGN AND / OR LEAK HISTORY)



POWER / INTERLOCK CABLE
RED: +12-24VDC
BLUE: 0V
GREEN / YELLOW: N/O
BLACK / WHITE: N/C
N.B RELAY CONTACTS
RATING: 24VDC/0.5A MAX

EXTERNAL SOUNDER / STROBE / RELAY ETC (OPTIONAL) MAX 0.5A

CONNECT IN SERIES WITH NOZZLE COVER LIMIT SWITCH OR CONNECT AS ALARM INPUT TO PLC (RELAY CONTACTS 24VDC/0.5A MAX)
MOULDING MACHINE CONTROL PANEL

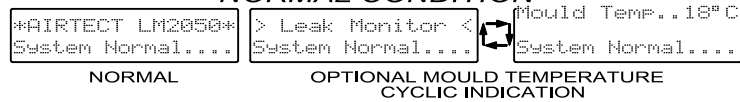
AIRTECT

LM2050 - LA508 / LA516 NOZZLE AND HOT RUNNER INSTALLATION GUIDE

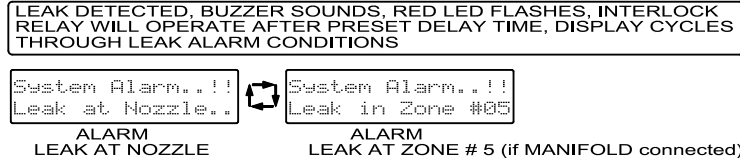
- MANIFOLD LED INDICATIONS**
- POWER LED SHOULD BE CONTINUOUSLY LIT (NORMAL)
 - STATUS LED SHOULD FLASH EVERY 3-4 SECONDS (NORMAL)
 - STATUS LED WILL FLASH QUICKLY FOR COMMUNICATION DATA ERROR / WARNING
 - STATUS LED WILL FLASH RED / GREEN QUICKLY FOR INTERNAL SENSOR ERROR / WARNING
- CORRECT INSTALLATION WILL MAKE A VERY RELIABLE LEAK DETECTION SYSTEM!**
INFO@AIRTECT.COM WWW.AIRTECT.COM

- IMPORTANT INSTALLATION / OPERATION NOTES:**
- 1) DC Power Source must be interference free, i.e. no EMU, Switching Valves, Servo Motors etc. Use separate Power Supply or Power Supply from the Machine PLC.
 - 2) The Internal Interlock Relay Contacts have a capacity to switch loads of 24Vdc with a maximum current of 0.5A.
 - 3) Ensure neat workmanship and run the wiring and PU tubing within the machine enclosure if possible. Do not over-tighten pneumatic connections.
 - 4) Ensure that both ends of all Sensor Tubes are cut neatly and filed and cleared of any debris so as to provide a clear air passage and clear inner Sensor Tube diameter of 1.12mm.
 - 5) When using expansion Manifolds (LA508 etc) ensure the LM2050 has been programmed to accept the manifold/s and that it/they are connected, otherwise a communication alarm will be displayed, and vice versa if the LM2050 has not been programmed and a manifold is connected, a communication alarm will be displayed.
 - 6) Electrical Power should only be switched on after the Air Supply is energised. When using LA508-M or LA516-M Modular Systems, the Manifolds should be mounted on the Mould Base before applying Electrical Power to allow the 'self teaching' function to work as all mould leak sensor installations will be somewhat different.

NORMAL CONDITION



ALARM CONDITION



INITIAL ACTION

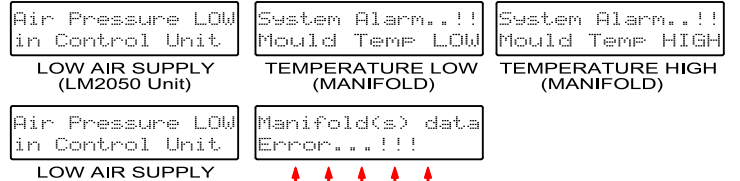
PRESS RESET BUTTON TO ACCEPT ALARM, SOUNDER WILL CEASE, RED LED CONTINUES TO FLASH, DISPLAY CYCLES THROUGH LEAK ALARM CONDITIONS. N.B IF THE SOUNDER CEASES, THE RED LED GOES OUT AND THE DISPLAY RETURNS TO NORMAL AFTER PRESSING THE RESET BUTTON, THEN THE ALARM IS MOMENTARY AND IS NOW NOT PRESENT.

BYPASS ALARM

AFTER PRESSING THE RESET BUTTON, PRESS THE BYPASS BUTTON FOR 5 SECONDS UNTIL THE YELLOW LED FLASHES. THIS WILL DE-ENERGISE THE INTERLOCK RELAY AND ALLOW OPERATION TO CONTINUE UNDER SUPERVISED CONDITIONS UNTIL THE LEAK HAS BEEN RECTIFIED.



OTHER ALARM INDICATIONS



↑↑↑↑↑
THIS DISPLAY RELATES TO COMMUNICATION ALARMS WHEN THE LM2050 IS CONNECTED TO A MULTI-ZONE MANIFOLD/S AND 'Set number of Manifolds' HAS NOT BEEN PROGRAMMED CORRECTLY. (SEE PROGRAMMING INSTRUCTIONS)
THESE ALARMS WILL ALSO BE DISPLAYED IF A MANIFOLD IS DISCONNECTED OR THE PCC CABLE GETS BROKEN OR DAMAGED.

AIRTECT

Plastic Leak Alarm System

AIRTECT

LM2050
PLASTIC LEAK ALARM

LM2050
Installation Guide
V.2 0416

AIRTECT

PROGRAMMING LM2050 (NEW)

AIRTECT LM2050
System Normal...

> Leak Monitor <
System Normal...

Mould Temp..45°C
System Normal...

NORMAL DISPLAY INDICATION..NO LEAKS DETECTED MOULD/MANIFOLD BODY TEMPERATURE WILL BE DISPLAYED IF OPTION IS SELECTED



TO ENTER PROGRAMMING MENU PRESS AND HOLD PROG/UP BUTTON FOR 5 SECONDS

Programming Menu
Up..Down..Select



LCD Contrast...
Select to Adjust

Programming Menu
Up..Down..Select

USE ▲ ▼ BUTTONS TO SELECT THE DESIRED LCD DISPLAY CONTRAST, THEN PRESS 'RESET'



Select Language
[1] **ENGLISH**



[1] **ENGLISH**
Up..Down..Select

USE ▲ BUTTON TO SELECT THE DESIRED LANGUAGE , THEN PRESS 'RESET' TO CONTINUE THE PROGRAMMING OPTIONS(IN THE SELECTED LANGUAGE).



Mold Temperature
*** INACTIVE ***



PRESS 'RESET' BUTTON TO TOGGLE BETWEEN 'ACTIVE' AND 'INACTIVE'

PROGRAM THE DISPLAY TO READ MOULD BODY TEMPERATURE AND ALLOW HIGH/LOW ALARM LIMITS TO BE MONITORED

'ACTIVE'

'INACTIVE'

PROG



Set Temperature
High Trip °C..60



USE ▲ ▼ BUTTONS TO SELECT VALUE FOR FIRST FLASHING DIGIT, THEN PRESS 'RESET' AND SELECT VALUE FOR THE SECOND FLASHING DIGIT, THEN PRESS 'RESET'



PROGRAM HIGH MOULD TEMPERATURE TRIP POINT e.g 60 Deg. C



Set Number of
Manifolds: ...0



USE ▲ ▼ BUTTONS TO SELECT VALUE FOR THE FLASHING DIGIT, THEN PRESS 'RESET'



PROGRAM NUMBER OF MANIFOLD ZONES
'01' = 8-ZONES e.g LA508
'02' = 16-ZONES e.g 2 x LA508 or 1 x LA516
'03' = 24-ZONES e.g 1 x LA508 + 1 x LA516
'04' = 32-ZONES e.g 2 x LA516



Temperature Trip
Relay Active..YES



PRESS THE 'RESET' BUTTON TO TOGGLE BETWEEN 'YES' OR 'NO.'

PROGRAM THE INTERLOCK RELAY TO ACTIVATE ON LOW / HIGH MOULD TEMPERATURE (RELAY WILL ACTIVATE 10 DEGREES ABOVE OR BELOW RESPECTIVE SET POINTS. AUDIO-VISUAL ALARM ONLY IN THIS 10 DEGREE WINDOW).



LEAK...Interlock
Relay Timed..YES



PRESS THE 'RESET' BUTTON TO TOGGLE BETWEEN 'YES' OR 'NO.'

PROGRAM THE INTERLOCK RELAY TO ACTIVATE AFTER A PRESET DELAY TIME 0-99 SECONDS (SEE SETTING LATER)



Controller Zone
*** ACTIVE ***



PRESS THE 'RESET' BUTTON TO TOGGLE BETWEEN 'ACTIVE' AND 'INACTIVE'.

PROGRAM OUT THE CONTROLLER AS A SINGLE ZONE 'NOZZLE' ALARM. IF SET TO 'INACTIVE', THEN THE CONTROLLER WILL FUNCTION AS THE CONTROL/DISPLAY UNIT FOR A MULTI-ZONE ALARM SYSTEM. IT WILL NOT REQUIRE AN AIR SUPPLY CONNECTED TO IT. IF SET TO 'ACTIVE' IT WILL REQUIRE AN AIR SUPPLY AND CAN BE USED AS A 'NOZZLE' ALARM IN ADDITION TO A MULTI-ZONE ALARM SYSTEM.



Interlock Relay
Timer (Secs)= 10



USE ▲ ▼ BUTTONS TO SELECT VALUE FOR FIRST FLASHING DIGIT, THEN PRESS 'RESET' AND SELECT VALUE FOR THE SECOND FLASHING DIGIT, THEN PRESS 'RESET'



PROGRAM INTERLOCK RELAY DELAY TIME, 0-99 SECONDS



Restore Unit..to
Factory Settings



ARE YOU SURE YOU WANT TO SELECT THIS SETTING? BY SELECTING THIS OPTION YOU WILL OVERRIDE ANY CHANGES MADE TO THE OPERATING SETTINGS

PROGRAM THE UNIT BACK TO DEFAULT SETTINGS I.E THOSE SHOWN ON THE DISPLAY PANELS ABOVE. IN THIS PROGRAMMING SHEET. THIS SETTING IS RARELY CHOSEN AS IT WILL OVERRIDE ANY CHANGES MADE DURING PROGRAMMING.



Programming Menu
Save/Quit Menu..



PRESS 'RESET' TO ACCEPT CHANGES, EXIT PROGRAMMING AND RETURN TO NORMAL OPERATION.

PROGRAM THE UNIT TO ACCEPT ALL THE CHANGES MADE TO THE SETTINGS DURING PROGRAMMING. .