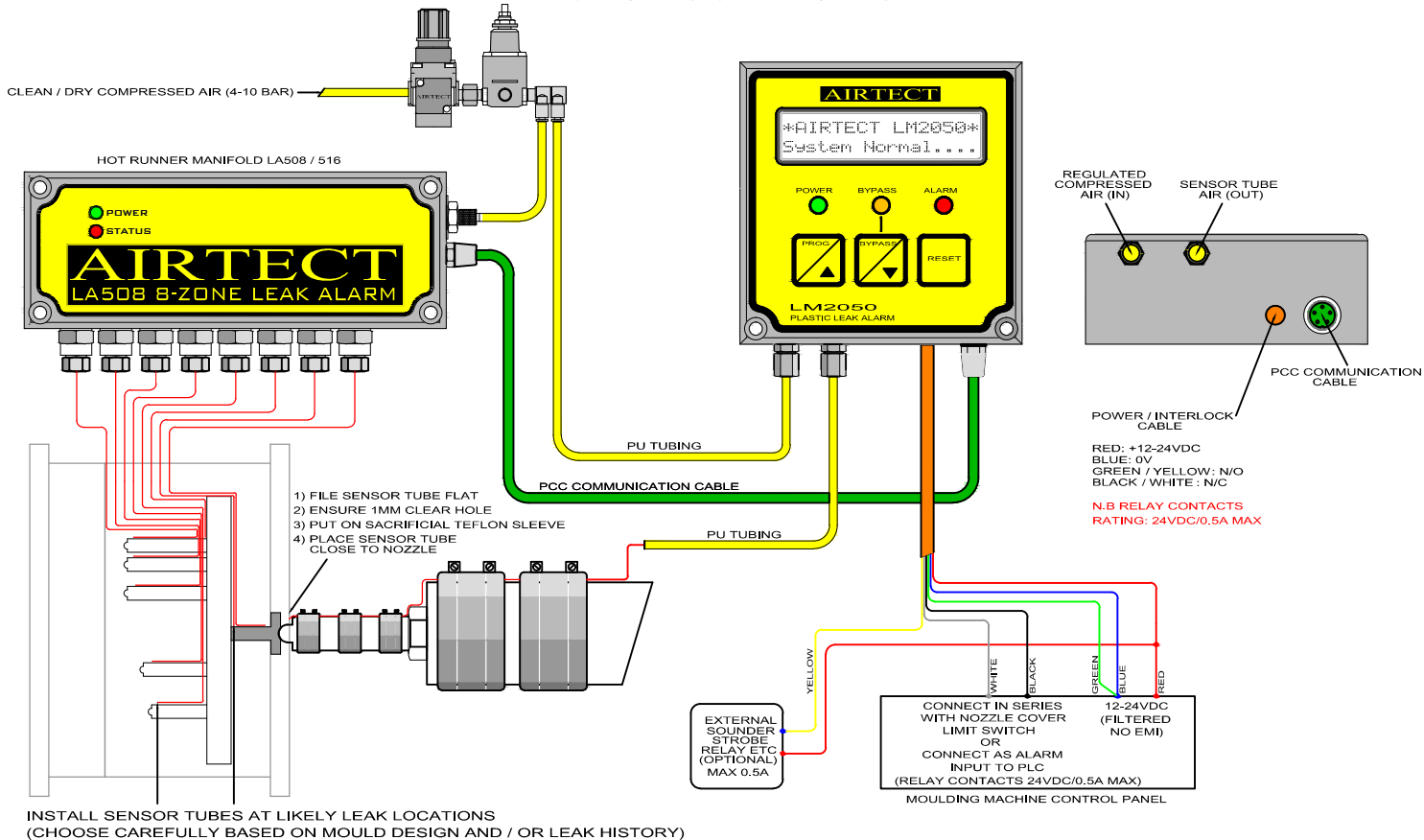


PRECISION REGULATOR SET ( 2nd Regulator only required when using Manifold )



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



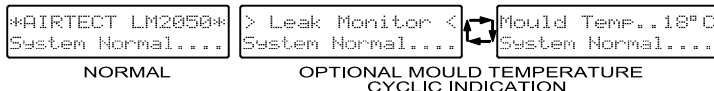
LM2050 - LA508 / LA516 NOZZLE AND HOT RUNNER INSTALLATION GUIDE

- 1) DC Power Source must be interference free i.e. no EMI or Switching Valves, Servo Motors etc. Use separate Power Supply or Power Supply for 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 wiring and PU tubing within machine enclosure if possible. Do not over-tighten pneumatic connections.
- 4) Ensure 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 1-1.2mm.
- 5) When using expansion Manifolds (LA508 etc) ensure the LM2050 is programmed correctly. If the LM2050 has not been programmed to accept a manifold and one is connected, then a communication alarm will occur and vice versa. If the LM2050 has been programmed to accept a manifold and it is not connected, a communication alarm will occur.

CORRECT INSTALLATION WILL MAKE A VERY RELIABLE LEAK DETECTION SYSTEM!  
WILL ENSURE CONTINUOUS RELIABILITY!  
REGULAR SYSTEM CHECKS

IMPORTANT INSTALLATION NOTES:

NORMAL CONDITION



ALARM CONDITION

LEAK DETECTED, BUZZER SOUNDS, RED LED FLASHES, INTERLOCK RELAY WILL OPERATE AFTER PRESET DELAY TIME, DISPLAY CYCLES THROUGH LEAK ALARM CONDITIONS

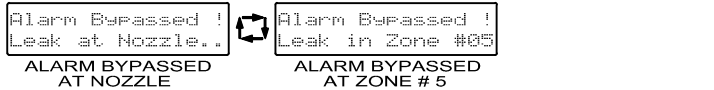


INITIAL ACTION

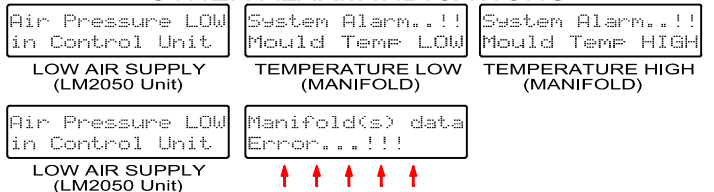
PRESS RESET BUTTON TO ACCEPT ALARM, SOUNDER WILL CEASE, RED LED CONTINUES TO FLASH, DISPLAY CYCLES THROUGH LEAK ALARM CONDITIONS **N.B IF THE SOUNDER CEASES, THE RED LED GOES OUT AND THE DISPLAY RETURNS TO NORMAL AFTER PRESSING THE RESET BUTTON, THEN THE ALARM WAS MOMENTARY AND IS NOW NOT PRESENT**

BYPASS ALARM

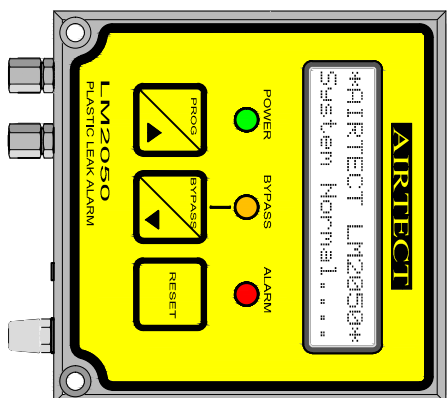
AFTER PRESSING THE RESET BUTTON, PRESS THE BYPASS BUTTON FOR 5 SECONDS UNTIL THE YELLOW LED FLASHES. THIS WILL DE-ENERGISE THE INTERLOCK RELAY AND ALLOW OPERATION TO CONTINUE UNDER SUPERVISED CONDITIONS UNTIL THE LEAK HAS BEEN RECTIFIED



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

## 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 MANIFOLDS IN THE SYSTEM I.E  
0=NOZZLE ONLY ALARM  
1= NOZZLE AND 1 MANIFOLD WITH 1-8 EXTRA ALARM ZONES  
2= NOZZLE AND 2 MANIFOLDS WITH 1-16 EXTRA ALARM ZONES



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. .