

PCS Nozzle Leak Detector

Part No. NLD100-CDR

Operating Instructions



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Product Description

PCS Company's Nozzle Leak Detector is a unique device that detects plastic leakage between the mold and the machine nozzle which could be caused by cracked nozzle tips, misaligned nozzles, plugged gates, etc. The Nozzle Leak Detector provides a 90 dBA audible alarm plus a visual alarm light. Using the input and output receptacles, interface with the press to stop the molding cycle to eliminate costly downtime and equipment repairs.

Installation

1. Lock & tag out incoming power for the machine to be modified.
2. Attach Thermocouple Mounting Bracket Assembly to the nozzle with a hose clamp (sold separately) over the heater band or directly on the nozzle OD if using an internally heated nozzle. Adjust the thermocouple in the bracket so the tip of the thermocouple is just behind the hex portion of the nozzle tip and tighten in place with set screw in the bracket.



3. Plug thermocouple into the thermocouple socket located on the right side of the unit.
4. Plug the leak detector unit into a standard 120V grounded receptacle.
5. Adjust the set point on the controller to approximately 100 to 150°F below the nozzle zone temperature.
6. To adjust the set point temperature on the controller, refer to the Model 3300 Controller instruction manual.
7. When a leak is detected, the audible alarm will sound and the LED will light up. Turn unit OFF and repair leak.
8. After the leak is fixed and the controller is reset, turn unit back ON. The audible alarm will remain silent and the LED warning light will remain off until another leak is detected.
9. To interface with machine, wire the plugs (included with unit) to use for input and output to your machines purge guard circuit or control panel. This interface will stop injection immediately thus stopping the leak.
10. Insert plugs from machine into appropriate receptacles located on side of unit.


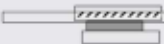

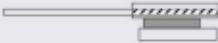
Model 3300 Controller Instructions

To Program the Set Point Temperature:

1. Press and hold the "*" button. The "F" and the temperature will flash back and forth in the display.
2. While holding the "*" button, press Up button to move set point temperature up, or press Down button to move set point temperature down • Holding the Up or Down button while holding the "*" button will change the temperature continuously • Quickly pressing the Up and Down button while holding the "*" button will change the temperature in 1-degree increments with each press.
3. After you reach the desired set point temperature (approximately 100-150 degrees below nozzle temperature set point), release the "*" button; your set point temperature is now programmed. Note: The current thermocouple temperature is displayed.

To Reset Controller:

1. After the unit detects a leak, the audible alarm and LED will activate and remain on until the controller is reset. Reset controller only after the leak is fixed.
2. Before the temperature can be reset, the temperature of the thermocouple displayed on the controller must be below the set point temperature; the controller cannot be reset until this happens.
3. To reset the controller, press the Up and Down buttons together and release quickly. The controller will reset and both audible alert and LED will turn off.

RECOMMENDED THERMOCOUPLES WITH MOUNTING BRACKETS		
	NLT3-MB	3" Straight Thermocouple w/insulated mounting bracket for medium nozzles: 6", 7" or 8" long. Has 60" stainless steel armored leads
	NLT6-MB	6" Straight Thermocouple w/insulated mounting bracket for long nozzles: 8", 9" or 10" long. Has 60" stainless steel armored leads
	NLT9-MB	9" Straight Thermocouple w/insulated mounting bracket for extra long nozzles: 12" & longer. Has 60" stainless steel armored leads
	NLT12-MB	12" Straight Thermocouple w/insulated mounting bracket for extra long nozzles: 12" & longer. Has 60" stainless steel armored leads