Hot Runner Temperature Controls

ATP
Active Thermocouple Protection

Lower Cost of Ownership

ATP provides effective protection against Common Mode Leakage, the leading cause of thermocouple failure (60% incidence)

- Helps prevent the loss of a T/C from causing a control module failure (at $200 – $500 per zone) and possible mainframe damage.
- Protects against running with one or more drops inoperable with resulting lost production.

Technical Description

ATP is a “non-powered” circuit, specially designed for hot runner applications.

ATP utilizes a resettable PTC (Positive Temperature Coefficient) device. PTC opens the T/C input connections temporarily when there is leakage current present. This helps protect the T/C junction and the control input circuits from failing.

ATP is also equipped with a specialized protection device that turns excessive “noise” and leakage current into heat, primarily employed during short duration pulses present in all industrial applications. This device eliminates any noise present – providing the controller with a clean, accurate signal – and assists the PTC to protect against leakage current.

All SmartMold Boxes come standard with:
- 0.75” standoffs, 1/4-20 hex head screws and lock washers for mounting boxes onto hot half.
- Wiring diagram / pin allocations
- All boxes represent a standard size of 10.38”L x 3.68”W x 4.00”H

Current ratings:
- All Standard Fast Heat connector mold boxes are rated for 20 amps per zone maximum.
- All DME standard mold boxes are rated at 15 amps per zone maximum.

Warranty:
- 2 years parts and labor.
- Contact points and fuse protection is not covered

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SmartMold Box Series and ATP Option

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<th>Model#</th>
<th>Type</th>
<th>Zone</th>
<th>Description</th>
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<td>SmartMold Box, Fast Heat standard 5 zone connectors</td>
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