Quick Start Installation & Setup Manual



for VISIONS 3000 Linux Software Rev 2.52









| Alarms Manage Zones | PID Settings | Users | Setup Hanie | | Enter the numb | er of cavities. 8 4 | |
|---|-----------------|---|-----------------------|---|--|---|------------------------------------|
| Save General | View | (?) Help | Exit | | Escape | Del | Clea |
| Load & Settings View | Graphs | | | | 4 | 5 | 6 |
| | | | | | 1 | 2 | 3 |
| | | | | | | | - |
| | | | | | 0 | | Empe |
| | | | | _ | 0 Enter the numb | er of manifolds | Ente |
| anage Zones | | | | | 0 Enter the numb Maximum 12 | er of manifolds 8 4 | Entre |
| nage Zones lumber of Cavities | | 4 | | | 0 <u>Enter the numb</u> Maximum 12 | er of manifolds 8 4 | Eme |
| anage Zones Number of Cavities Cavity Minimum Setpoint | | 4 Off | | | 0 Enter the numb Maximum 12 Escape | er of manifolds 8 4 Del | Eme Clea |
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| anage Zones Number of Cavities Cavity Minimum Setpoint Cavity Power Limit Cavity Temperature Limit | | 4 Off 70% 470°C | Setup Home | | 0 Enter the numb Maximum 12 Escape 7 | er of manifolds 8 4 Del 8 | Eme Clea |
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| Inage Zones Number of Cavities Cavity Minimum Setpoint Cavity Power Limit Cavity Temperature Limit Cavity Standby Temperature Number of Manifolds Manifold Power Limit | | 4 Off 70% 470°C 50°C 4 90% | Setup Home | | 0 Enter the numb Maximum 12 Escape 7 4 | er of manifolds 8 4 Del 8 5 2 | Eme Clea 9 6 |
| anage Zones Number of Cavities Cavity Minimum Setpoint Cavity Power Limit Cavity Temperature Limit Cavity Standby Temperature Number of Manifolds Manifold Power Limit Manifold Temperature Limit | | 4 Off 70% 470°C 50°C 4 90% 470°C | Setup Home Back | | 0 Enter the numb Maximum 12 Escape 7 4 1 | er of manifolds 8 4 Del 8 5 2 | Eme Clea 9 6 3 |
| anage Zones Number of Cavities Cavity Minimum Setpoint Cavity Power Limit Cavity Temperature Limit Cavity Standby Temperature Number of Manifolds Manifold Power Limit Manifold Temperature Limit Manifold Standby Temperature | | 4 Off 70% 470°C 50°C 4 90% 470°C 50°C | Setup Home | | 0 Enter the numb Maximum 12 Escape 7 4 1 | er of manifolds 8 4 Del 8 5 2 | Eme Clea 9 6 3 Ente |



Current value: 50°C





Touch "Setup Home" after completing all Managed Zone Entries





| 1 | Testing | 12 Ω | 22°C |
|----------|---------|------|------|
| 2 | Testing | 12 O | 22°C |
| 3 | Testing | 12 Q | 23°C |
| 4 | Testing | 12 0 | 23°C |
| 5 | Testing | 12 D | 23°C |
| <u>6</u> | Testing | 12 D | 23°C |
| <u>7</u> | Testing | 12 D | 23°C |
| 8 | Testing | 12 D | 23°C |

| 1 | ->1 Up; 25 Sec | 312 Ω | 35°C |
|---|----------------|-------|------|
| 2 | Heating | 370 Ω | 27°C |
| 3 | Sensing | 358 Ω | 27°C |
| 4 | Sensing | 367 Q | 28°C |
| 5 | Sensing | 398 Ω | 28°C |
| 6 | Sensing | 319 O | 28°C |
| 7 | Sensing | 380 Ω | 28°C |
| 8 | Sensing | 68 Q | 28°C |
| 9 | Sensing | 45.0 | 21°C |

| 1 | >1 Up. 25 Sec | 12 0 | 32*0 |
|----|-----------------|-------------|------|
| 2 | -> 2 Up; 16 Sec | 12 O | 34°C |
| 3 | -> 3 Up. 18 Sec | 12 A | 36"C |
| 4 | -> 4 Up, 18 Sec | 12 0 | 3810 |
| 5 | -> 5 Up, 21 Sec | 12.0 | 47°C |
| 6 | -> 6 Up, 15 Sec | 12 0 | 52°C |
| 1. | -> 7 Up; 19 Sec | 12 <u>0</u> | 44"C |
| 8 | -> 8 Up, 16 Sec | 12 12 | 30*0 |

The controller waits for the heater Temperature to settle before beginning the Diagnostic test

When each zone has been tested, it will turn green or red to indicate weather it has passed or failed the test. If a zone fails, it will turn red and the reason for the failure will be given.

When all zones have been tested, the user will be invited to save the results

Touch















| V2 Test_Rig:0 | | | | | |
|---------------|--------|---------|---------|--|-----------|
| Zone | °C Tol | Pwr Tol | TC-Cold | ME PART MARKED PART | Back |
| 1 Cavity#1 | 5°C | 10% | 10Min | | |
| 2 Cavity-#2 | 5°C | 10% | 10Min | | |
| 3 Cavity#3 | 5°C | 10% | 10Min | A DESCRIPTION OF THE OWNER OWNER OF THE OWNER OWNER OF THE OWNER OWNE OWNE OWNER OWNE | Edit Alar |
| 4 Cavity#4 | 5°C | 10% | 10Min | All shares of the second s | 1- |
| 5 Manifold#1 | 5°C | Off | 20Min | | i |
| 6 Manifold#2 | 5°C | Off | 20Min | | -0-0 |
| 7 Manifold#3 | 5°C | Off | 20Min | | |
| 8 Manifold#4 | 5°C | Off | 20Min | | |
| | | | | Touch | Alarm Par |
| | | | "E | Touch lit Alarm | Alarm Par |

| Zone | °C Tol | Pwr Tol | TC-Cold |
|---------------|--------|---------|---------|
| 1 Cavity—#1 | 5°C | 10% | 10Min |
| Z Cavity-#Z | 5°C | 10% | 10Min |
| 3 Cavity#3 | 5°C | 10% | 10Min |
| 4 Cavity-#4 | 5°C | 10% | 10Min |
| 5 Manifold—#1 | 5°C | Off | 20Min |
| 6 Manifold—#2 | 5°C | Off | 20Min |
| 7 Manifold—#3 | 5°C | Off | 20Min |
| 8 Manifold-#4 | 5°C | Off | 20Min |

Select Temperature Tolerance and zones applied to. This same procedure applies to "Power Tolerance" and "Cold T/C Time"

> Enter the temperature alarm tolerance then touch "Enter"

The Temperature Tolerance is the maximum acceptable deviation from Set Point. If any temperature exceeds the entered value and remains out of limits for more than 5 seconds, the (temperature alarm will be triggered.

| Tona Calasti | and type and enter the new | value for scienced zi | unes. | |
|--------------|---|--------------------------|--------------------|-----------------|
| zone selecti | он | | (-) | 00 |
| Cavities | 1. Cavity#1 2. Cavity#2 | Alarm Type | ^S | |
| | 3. Cavity#3 4. Cavity#4 | Temperature Tolerance | Power Tolerance | Cold TC Time |
| Manifolds | 5. Manifold#1 6. Manifold#2 7. Manifold#3 | Escape | Del | Clear |
| _ | 8. Manifold#4 | 7 | 8 | 9 |
| All Zones | | 4 | 5 | 6 |
| Clear | | 1 | 2 | з |
| Selection | | 0 | | Enter |

| Zone | °C Tol | Pwr Tol | TC-Cold | i | |
|--|---|---|--------------|-------------------------|----------------------|
| 1 Cavity—#1 | 5°C | 10% | 10Min | | |
| Z Cavity-#2 | 5°C | 10% | 10Min | | Select Power |
| 3 Cavity#3 | 5°C | 10% | 10Min | II | Tolerance and |
| 4 Cavity-#4 | 5°C | 10% | 10Min | | Cavities |
| 5 Manifold—#1 | 5°C | Off | 20Min | | |
| 6 Manifold—#2 | 5°C | Off | 20Min | | |
| 7 Manifold—#3 | 5°C | Off | 20Min | | |
| 8 Manifold-#4 | 5°C | Off | 20Min | 0 | |
| The Power Tolera | nce monitors power | consumption | Choose the a | larm type and enter the | e new value for sele |
| of each individual other cavity h consumption of | l cavity heater and c eaters. An increase an individual heate | compares it to in power r. is the first | Cavities | 1. Cavity#1 | - Alarm Type |
| sign of a developi | ng thermocouple fa | ult. The value | | 3. Cavity#3 | a Temper |

entered is the maximum average acceptable difference in power consumption between cavity heaters. Any deviation from this value will trigger an alarm



| Zone | °C Tol | Pwr Tol | TC-Cold |
|---------------|--------|---------|---------|
| 1 Cavity—#1 | 5°C | 10% | 10Min |
| Z Cavity—#2 | 5°C | 10% | 10Min |
| 3 Cavity#3 | 5°C | 10% | 10Min |
| 4 Cavity-#4 | 5°C | 10% | 10Min |
| 5 Manifold—#1 | 5°C | Off | 20Min |
| 6 Manifold—#2 | 5°C | Öff | 20Min |
| 7 Manifold—#3 | 5°C | Off | 20Min |
| 8 Manifold—#4 | 5°C | Off | 20Min |

The "T/C Cold Time" is used during the initial mold warm up. During the mold warm up the controller is monitoring the tool for any unresponsive thermocouples. If after continuously applying power for the duration of the time entered and not temperature increase in detected, the "Cold T/C alarm is triggered.

Appropriate time values should be set for both Cavity and Manifold zones





Set an appropriate response for each alarm



Turn "Off" if not using the Machine Interface









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