Time Electronics
7070 / 7071 / 7072 Dry Block Calibrators

- **7070**: -17 to 140°C (-1 to 284°F)
- **7071**: 33 to 320°C (91 to 608°F)
- **7072**: 33 to 650°C (91 to 1202°F)
- Interchangeable inserts
- Simple operation and intuitive display
- Supplied with multi hole insert
- Auto stepping
- MVI Mains Variance Immunity
- EasyCal software compatible

**DESCRIPTION**

Precision compact dry block calibrators for calibration of RTDs, thermocouples, thermoswitches, thermistors, and other common temperature sensing devices.

Features include an automatic switch test, programmable auto stepping, excellent stability and an intuitive display that allows fast and easy operation. Each model has RS-232 communication and is EasyCal software compatible for control and readback, enabling automated calibration procedures. When ordered with a Time Electronics CalBench these dry block calibrators can be used with the 7051 calibrator/DMM module and 7085A temperature distribution panel for batch testing of temperature devices (see 7085 data sheet for details).

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Model</th>
<th>Temp Range</th>
<th>Heating Time Min to Max</th>
<th>Cooling Time Max to Min</th>
<th>Accuracy</th>
<th>Resolution</th>
<th>Stability</th>
<th>Approx Time to Stability</th>
<th>Immersion depth</th>
<th>Insert diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>7070</td>
<td>-17 to 140°C (1 to 284°F)</td>
<td>15 min</td>
<td>28 min</td>
<td>0.4°C (0.7°F)</td>
<td>1° or 0.1°C/F</td>
<td>0.05°C (0.09°F)</td>
<td>5 min</td>
<td>115 mm (4.5 in.)</td>
<td>19mm (3/4 in.)</td>
</tr>
<tr>
<td>7071</td>
<td>33 to 320°C (91 to 608°F)</td>
<td>4 min</td>
<td>16 min</td>
<td>0.5°C (0.9°F)</td>
<td>1° or 0.1°C/F</td>
<td>0.1°C (0.18°F)</td>
<td>8 min</td>
<td>110 mm (4.3 in.)</td>
<td>26mm (1 in.)</td>
</tr>
<tr>
<td>7072</td>
<td>33 to 650°C (91 to 1202°F)</td>
<td>10 min</td>
<td>28 min</td>
<td>0.9°C (1.6°F)</td>
<td>1° or 0.1°C/F</td>
<td>0.1°C (0.18°F)</td>
<td>8 min</td>
<td>115 mm (4.5 in.)</td>
<td>26mm (1 in.)</td>
</tr>
</tbody>
</table>

Switch input (dry contact) ......................... Max 5 VDC test voltage / Max 2.5 mA test current
Supplied pre-drilled multi hole Insert .......... 7070 hole sizes: 3, 4, 5 & 6mm / 7071 & 7072 hole sizes: 3, 4, 5, 6 & 9mm.
Interfaces ............................................. RS-232 (EasyCal compatible)
Environmental ........................................ Operating temperature: 0 to 40°C (32 to 104°F)
                                          Storage temperature: -20 to 50°C (-4 to 122°F)
                                          Humidity: 0 to 90% RH

Mains Supply ........................................ 115 VAC/60Hz – 230 VAC/60Hz
Dimensions (all models) ......................... L241 x W139 x H325 mm (L9.5 x W5.5 x H12.8 in)

Weight ............................................ 7070: 7 kg (15.5 lb) / 7071: 5 kg (11 lb) / 7072: 6 kg (13 lb)

Supplied Accessories/Extras ...................... 1 x multi hole insert, 1 x undrilled insert, carry case & calibration certificate

Optional Extras .................................... Additional inserts, cleaning brushes, insulation plugs - available upon request

**ORDERING INFORMATION**

7070 ................................................. Dry Block Calibrator (-17 to 140°C)
7071 ................................................. Dry Block Calibrator (33 to 320°C)
7072 ................................................. Dry Block Calibrator (33 to 650°C)

Due to continuous development Time Electronics reserves the right to change specifications without prior notice.