



- **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, thermostats, 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

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

- 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.