

DRY BLOCK CALIBRATOR

Instrument Specification

A910



DESCRIPTION

The A910 dry block temperature calibrator is an easy-to-use, portable, precision calibration instrument specifically for the calibration of "fluid filled" temperature controllers as used by the oil filled transformer industry.

Developed for use with Accurate Controls range of instruments. Is suitable for calibration of other temperature controllers.

The A910 removes the inaccuracies associated with older dry block calibrators due to insufficient heating elements whilst maintaining all of the functionality.

Full bulb length heating blocks ensure heating times are minimised.

Replaces older style, hot oil or water filled baths ensuring operator safety.

Also provides fast, reliable temperature calibration of RTD's, thermocouples, thermostats, plus other common temperature sensing devices.

A back-lit LCD display panel ensures readings are visible in high ambient light conditions.

Membrane-style push buttons with tactile feedback control all programmable functions.

Automatic Switch Testing

The calibrator features a fully automatic switch test function allowing operators to perform a switch test calibration, determining actual switch closing and opening temperatures and confirmation of hysteresis.

Features

- Easy-to-Use Precision Temperature Calibrator
 - Automated Switch Testing
 - Programmable Slope Rates
 - Programmable Minimum/Maximum
- Lightweight, Portable and Easy-To-Use
- Fast Calibration with No Liquids
 - Short Heating and Cooling Times
- Excellent Performance Characteristics
 - Range 30 to 650°C (86 to 1202°F)
 - Accuracy: +0.5°C (+0.9°F)
 - Stability: +0.5°C (+0.9°F)

Auto Stepping

Another dedicated function key allows users to automatically change between temperature settings.

The calibrator steps from one temperature to the other either directly or via user configurable steps with adjustable time of each step and the temperature at each step.

Stability Indicator

Stability of temperature is indicated with an audible and visual indication of when the calibrator has reached the "SET" temperature and is stable.

Simplified Set-up and Operation

Menus guide users through set-up, operation and maintenance routines allowing the following :

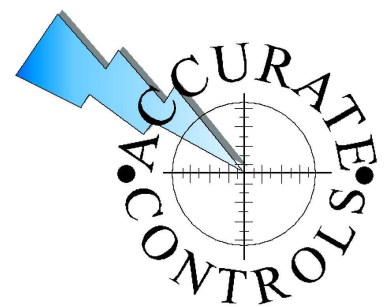
- Temperature display resolution,
- Define the time requirements for a "stable" indication,
- Select units (°F or °C),
- Set slope rates from 0.1 to 9.9° per minute
- Define maximum temperature to protect fragile sensors.
- Service condition e.g. instrument information, software revision level, serial number and last calibration date.

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Functional Specifications

Temperature Range:

Min: 30°C (86°F) Max: 650°C (1202°F)

Accuracy¹:

+0.9°C (+1.62°F)

Note ¹: Measured at bottom of well with high precision RTD

Stability:

+0.1°C (0.18°F)

Resolution (Maximum):

0.1°C/°F

Heating Time (Ambient to Max)²:

37 minutes

Note ²: Including insertion tube

Programmable Slope Rates:

0.1 to 9.9°C/°F

Automatic Step:

Programmable, up to 9 steps

Physical Specifications

Line Voltage:

115 Vdc 50/60 Hz

230 Vdc 50/60 Hz

Well Depth:

200 mm (7.9 inches)

Well Diameter:

26 mm (1.0 inches)

Weight:

10.4 kg (23 lbs)

Dimensions (L x H x W):

241 x 408 x 139 mm

(9.5 x 16.1 x 5.5 inches)

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

Protection Classes:

101P

CE Conformance:

Conforms to the EMC directives 89/336:

EN50081-1 (1992)

EN50081-2 (1993)

EN50082-1 (1997)

EN50082-2 (1995)

and the Low Voltage irective 73/23/EEC

EN61010-1 (1993)

EN61010-1/A2 (1995)

Insertion Tubes

Various sizes available to suit sensing bulb dimensions.
Please contact Accurate Controls.

Accessories

Part No.	Description
104244	Carrying case
60F135	Power Cable, 115V, US Type B
60F136	Power Cable, 230V, UK Type C
60F137	Power Cable, 220V, South Africa Type D
60F138	Power Cable, 220V, Italy Type E
60F139	Power Cable, 240V, Australia Type F
60F140	Power Cable, 230V, Europe Type A
60F141	Power Cable, 230V, Denmark Type G
60F142	Power Cable, 220V, Switzerland Type H
60F143	Power Cable, 230V, Israel Type I
65F126	Test Cables, BLACK
65F127	Test Cables, RED
60B301	Fuse, 230V, 5AF
60B302	Fuse, 115V, 10AF