

	MODEL 510/511 FIELD CALIBRATION PROCEDURE	DOCUMENT NO. 510/511-0300	841 Holt Road Suite 1 Webster New York 14580 Business: (585) 872-9350 Fax: (585) 872-2638
Created by: M. Kieck	DATE: 5-1-03	Sheet 1 of 2	

Rev.	Date	Appd	BRIEF CHANGE DESCRIPTION
A	5-1-03	MJK	INITIAL RELEASE
B	7-28-04	LBD	UPDATES AND ADDED FIGURES

Equipment Needed:

1. Precision OHM Meter with accuracy of 0.0068% at 400 Ω .

Enabling Calibration:

Place in fresh batteries and allow 15 minutes for the Model 510/511 to stabilize to the ambient temperature. Remove the EZ-Dial™ Knob, battery cover and the four black Phillips head screws. While holding the Model 510/511 face down in one hand, carefully separate the top and bottom of the housing. Place the unit into calibration mode by shorting the calibration via located on the bottom left side on the PCB with tweezers and turning the UUT on. Verify the Model 510/511 is in calibration mode by viewing the top left of the LCD for the word “CAL”.

Source Ω Calibration:

Connect the Model 510/511 terminals to an Ohm Meter in four-wire configuration (See Figure 1). Set the Ohm meter in four wire with an excitation current of 1mA.

LO Calibration:

1. Slide the EZ-Check™ Switch to the LO position indicated by displaying a “LO” on the left side of the LCD.
2. Dial the Model 510/511 so the meter reads 0.00 Ω .
3. Press the EZ-Dial™ Knob down.
4. The display will flash “STORED” to confirm that the value was stored.

HI Calibration:

1. Slide the EZ-Check™ Switch to the HI position indicated by displaying a “HI” on the left side of the LCD.
2. Dial the Model 510/511 so the meter reads 400.00 Ω .
3. Press the EZ-Dial™ Knob down.
4. The display will flash “STORED” to confirm that the value was stored.

Completion of Calibration:

For the Model 510 only: double click the EZ-Dial™ Knob to enter the settings screen. Enter the customer’s requested RTD type and press the EZ-Dial™ Knob to select. This sets the RTD type for the Model 510 and cannot be changed without reprogramming.

Turn the Model 510/511 OFF. Next time the unit is turned on the Model 510/511 will be calibrated and in normal operational mode.

	MODEL 510/511 FIELD CALIBRATION PROCEDURE	DOCUMENT NO. 510/511-0300	841 Holt Road Suite 1 Webster New York 14580 Business: (585) 872-9350 Fax: (585) 872-2638
Created by: M. Kieck	DATE: 5-1-03	Sheet 2 of 2	

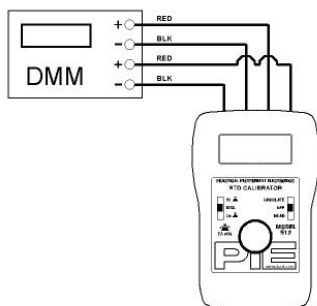


FIGURE 1 (Source OHM)