

TRANSMATION Products Group	134-2 Field Calibration Procedure	DOCUMENT NO. 100902-972	REV. A
	Created by: Doug Neff	Date: 30Nov99	Sheet 1 of 4

Rev	Date	Appd	DCN								
A	7JAN00		10672								

Suggested Equipment:

1. Precision Current Source with accuracy of $\pm 0.037\%$ of setting at 20mA.
2. DMM with accuracy of $\pm 0.037\%$ of reading at 20mA.

ENABLING CALIBRATION:

Remove the three screws located in back of the unit. While holding the UUT face down in one hand, carefully separate the top and bottom housing. Place the unit into Calibration mode by shorting the CAL header located on the upper right side of the circuit board (See Figure 1). The CAL annunciator will be displayed to indicate the UUT is in calibration mode. Place fresh batteries into the UUT before any calibration adjustments are made.

CALIBRATION:

READ mA:

1. Connect the UUT to the Current Source as shown in Figure 2.
2. Turn the UUT on to read mA mode by sliding the power switch to the right.
3. Set the Current Source to 0.00mA, and press the 0%/4mA button. The LO annunciator will illuminate briefly, and the display will flash to indicate the calibration completed successfully.
4. Set the Current Source to 20.00mA, and press the 100%/20mA button. The HI annunciator will illuminate briefly, and the display will flash to indicate the calibration completed successfully.

FUNCTIONAL CHECK

Read mA:

1. Turn the UUT off, and un-short the CAL jumper.
2. Turn the UUT back on to read mA mode by sliding the power switch to the right.

TRANSMATION Products Group	134-2 Field Calibration Procedure	DOCUMENT NO. 100902-972	REV. A
	Created by: Doug Neff	Date: 30Nov99	Sheet 2 of 4

3. Set the Current Source to the values in the table below, and verify the UUT is reading within specification.

Setting	Specification
4.00mA	$\pm 0.03\text{mA}$
8.00mA	$\pm 0.03\text{mA}$
12.00mA	$\pm 0.03\text{mA}$
16.00mA	$\pm 0.03\text{mA}$
20.00mA	$\pm 0.03\text{mA}$

Source mA:

1. Connect the UUT to the DMM as shown in Figure 3.
2. Switch the UUT to Source mA mode by sliding the power switch to the left.
3. Set the UUT to Source the values in the table below, and verify the DMM is reading within specification.

UUT Setting	Specification
4.00mA	$\pm 0.03\text{mA}$
8.00mA	$\pm 0.03\text{mA}$
12.00mA	$\pm 0.03\text{mA}$
16.00mA	$\pm 0.03\text{mA}$
20.00mA	$\pm 0.03\text{mA}$

This completes the calibration of the unit.

Be sure the CAL jumper is un-shortened, and replace the three screws.

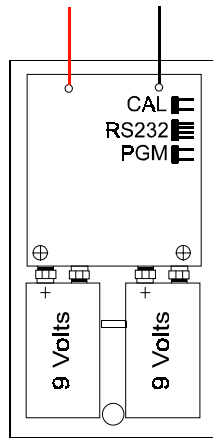


Figure 1

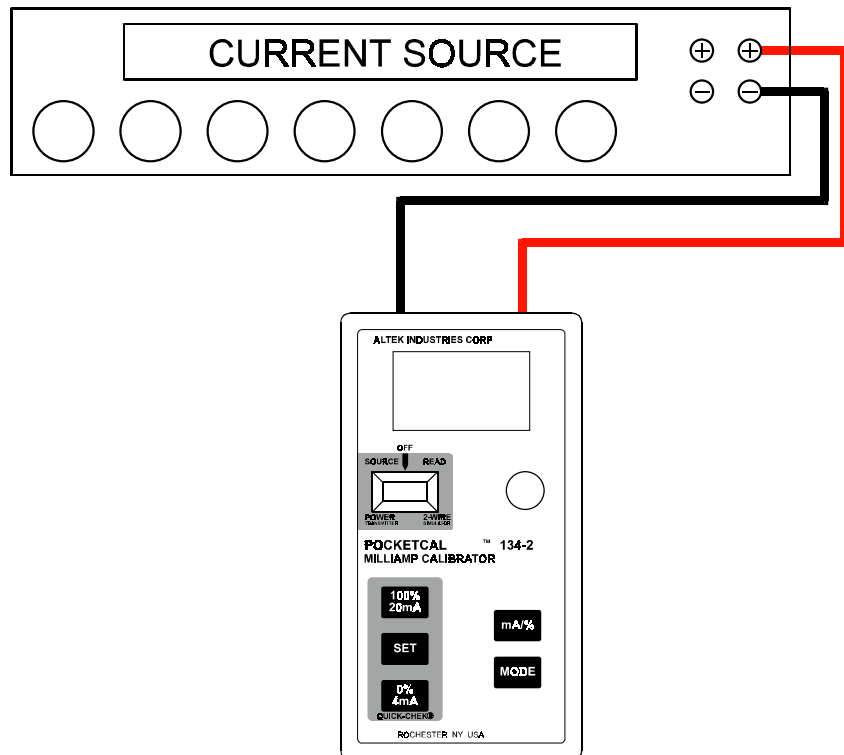


Figure 2

TRANSMATION Products Group	134-2 Field Calibration Procedure	DOCUMENT NO. 100902-972	REV. A
	Created by: Doug Neff	Date: 30Nov99	Sheet 4 of 4

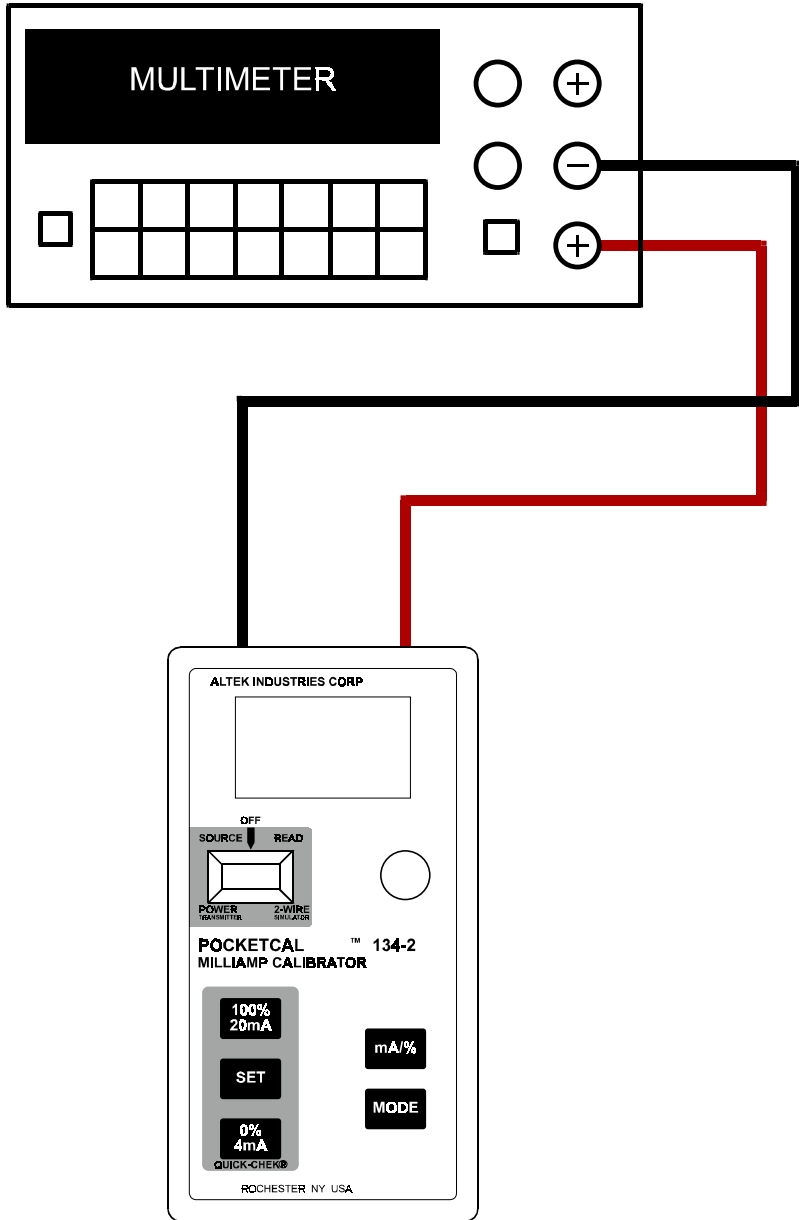


Figure 3