

U1252B-09

Modification Recommended Service Note

Supersedes:
NONE

U1252B Handheld Digital Multimeter

Serial Numbers: MY00000000 to MY58010001

The Problem – Incorrect current offset reading (~0.35mA) when knob is set to mA/A current range.

Parts Required:

P/N	Description	Qty.
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NONE

ADMINISTRATIVE INFORMATION

ACTION		X ON SPECIFIED FAILURE		STANDARDS	
CATEGORY:		<input type="checkbox"/> AGREEABLE TIME		LABOR: 0.5 Hours	
LOCATION		X CUSTOMER INSTALLABLE			
CATEGORY:		<input type="checkbox"/> ON-SITE (active On-site contract required)		SERVICE:	<input type="checkbox"/> RETURN
		<input type="checkbox"/> SERVICE CENTER		INVENTORY:	<input type="checkbox"/> SCRAP
		<input type="checkbox"/> CHANNEL PARTNERS			<input type="checkbox"/> SEE TEXT
USED				PARTS:	<input type="checkbox"/> SCRAP
					<input type="checkbox"/> SEE TEXT
AVAILABILITY:		PRODUCT'S SUPPORT LIFE		NO CHARGE AVAILABLE UNTIL: 31 January 2019	
		<input type="checkbox"/> Calibration Required		PRODUCT LINE: GM	
		X Calibration NOT Required		AUTHOR: WY	

ADDITIONAL INFORMATION:

Situation:

There is an offset of $\sim 0.35\text{mA}$ when knob is set to mA/A current range (Refer picture 1 below).











Picture 1

The current measurement out of specification occurs at mA and A range is caused by the improper “Current Open” calibration adjustment steps performed in production. This causes negative offset affecting the 50mA, 500mA, 5A and 10A measurement range.

Solution/Action:

The offset can be corrected by manually performing the “Current Open” calibration adjustment. Follow the “Current Open” calibration adjustment steps as published in the Service Guide or follow the steps below:

1. Unsecure the meter for calibration.

- i) Turn the rotary switch to .
- ii) Press  and  button simultaneously to enter the Calibration Security Code entry mode.
- iii) The primary display shows 5555 and the secondary display shows SECUR.
- iv) Use the editing keys  and  to step each character in the code.
- v) Use the  and  to select each character.
- vi) Press  (SAVE) when done.
- vii) If the correct security code is entered, the secondary display will show PASS.

2. Perform CAL OPEN adjustment at mA.A dial position.

- i) Turn the rotary to "mA.A" position and display will show "oPEN mA".
- ii) Ensure that no cable is connected to the DUT. Press "Hz" button once to perform calibration. It will show "Pass" at secondary display upon completion.
- iii) Exit the unsecure mode, by pressing "Shift" and "Hz" button simultaneously, meter will show in DCmA measurement mode.
- iv) Validate the measurement. The passing criteria is between -00.005mA to 00.005mA.

Revision History:

Date	Service Note Revision	Author	Reason for Change
24 January 18	09	WanYee	As Published