

				ALTEK MODEL 46 2 WIRE SIMULATOR FIELD CALIBRATION				DOCUMENT NO. 1-053		REV. A	
Created by: L. KINNEY						Date: 9 AUG 00			Sheet 1 of 2		

Rev	Date	Appd	DCN								
A	8-9-00		10450								

SUGGESTED EQUIPMENT: 4-1/2 digit Digital Voltmeter (0.05% or better) with a precision ($\pm 0.05\%$) 250 Ohm resistor. As a less accurate alternative, a Digital Milliammeter may be used directly which eliminates the 250 Ohm resistor. Also required is a 24-30 VDC power supply.

HOOK-UP INSTRUCTIONS: Set the meter to a range which covers 1-5 VDC with sufficient resolution. Place the 24-30 VDC power supply in series with the 250 Ohm ($\pm 0.05\%$) resistor and The Altek Simulator which is to be calibrated. The meter will read 1-5 Volts corresponding to 4-20 mA through the resistor (see figure 1). The LED on the Altek unit should be lit indicating that the connections are correct and that the unit is functioning.

SPAN AND ZERO ADJUSTMENTS: Set the switch on the Model 46 to the 20mA (100%) position. The span pot (see figure 2) is adjusted so that the meter reads 5.000 volts. The switch is now moved to the 4 mA (0%). The zero pot is adjusted so that the meter reads 1.000 volts. Check and readjust span and zero until within $\pm 0.1\%$ accuracy ($\pm 0.02\%$ typical).

LINEARITY TEST: Move the switch to the 8mA (25%) position. The meter should read between 1.996V and 2.004V. Set at 12 mA (50%). The meter should read between 2.996V and 3.004V. With a setting of 16mA (75%) the meter should read between 3.996V and 4.004V.

**If the unit fails to meet any of its stated specifications after recalibration,
it should be returned to the factory for repairs.**

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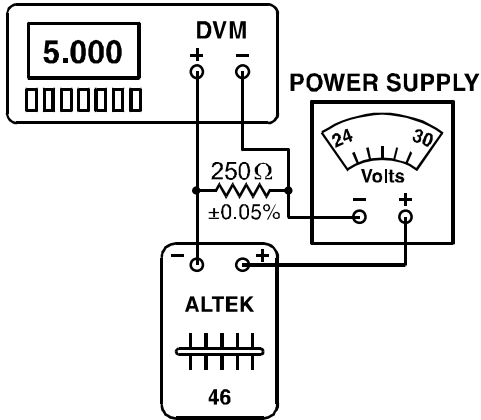


FIGURE 1

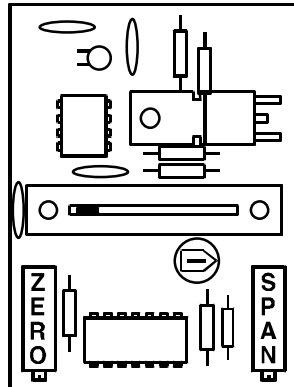


FIGURE 2