

MODEL 680

4-20mA Simulator

- Coarse and Fine Adjustments
- LCD Display
- Compact, Hand-Held Design



DESCRIPTION

The **Model 680 4-20mA Simulator** is designed to simulate 4-20mA current levels, and allows the user to calibrate and test 4-20mA modules.

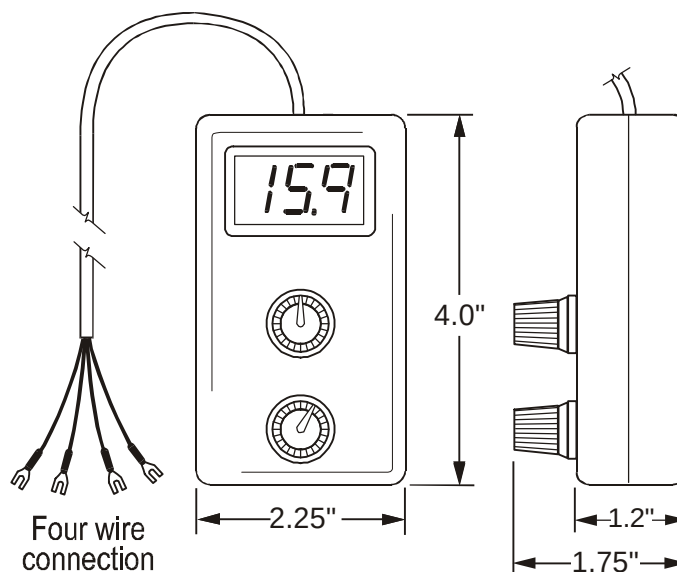
COARSE and FINE knob adjustments set current level. An LCD display shows current level.

The Model 680 can be used to aid in calibration of liquid level controls requiring a 4-20mA input signal, such as Time Mark Models 4042 and 4082.

SPECIFICATIONS

Model	680
Operating Voltage	24 VDC $\pm$ 5%
Supply Current	30 mA max.
Output Signal	4-20 mA
Output Load	750W max.
Display	LCD, 3.5 digit
Resolution	0.1 mA
Operating Temperature	+32° to +122° F
Humidity Tolerance	0-97% w/o condensation
Enclosure Material	ABS plastic
Weight	5 oz.
Cable	Specs 20 AWG, 4 cond. Length 38 inches Termination fork terminals (#6)

DIMENSIONS



Telephone: Main - (918) 438-1220
Sales - (800) 862-2875
Fax: (918) 437-7584

E-mail: sales@time-mark.com
Internet: http://www.time-mark.com



11440 East Pine Street
Tulsa, Oklahoma 74116

Doc No. 87A407 11/00
© 2000 TIME MARK CORPORATION

TIME MARK is a division of  AEMT, Inc.

MODEL 680 4-20mA Simulator

READ ALL INSTRUCTIONS BEFORE INSTALLING, OPERATING OR SERVICING THIS DEVICE.
KEEP THIS DATA SHEET FOR FUTURE REFERENCE.

GENERAL SAFETY

THE MODEL 680 SIMULATOR IS NOT TO BE USED WITH INPUT VOLTAGES OTHER THAN 24VDC. ALL ELECTRICAL POWER SHOULD BE REMOVED WHEN CONNECTING OR DISCONNECTING WIRING. THIS DEVICE AND WIRING SHOULD BE INSTALLED AND SERVICED BY QUALIFIED PERSONNEL.

Installation Instructions

INSTALLATION

Connect the **Model 680 4-20 mA Simulator**. This device may be used to calibrate and test a 4-20 mA instrumentation/control current loop, or for other applications requiring a variable/known 4-20 mA source.

Connect the Model 680 to the 24VDC power supply and to a typical current loop as follows:

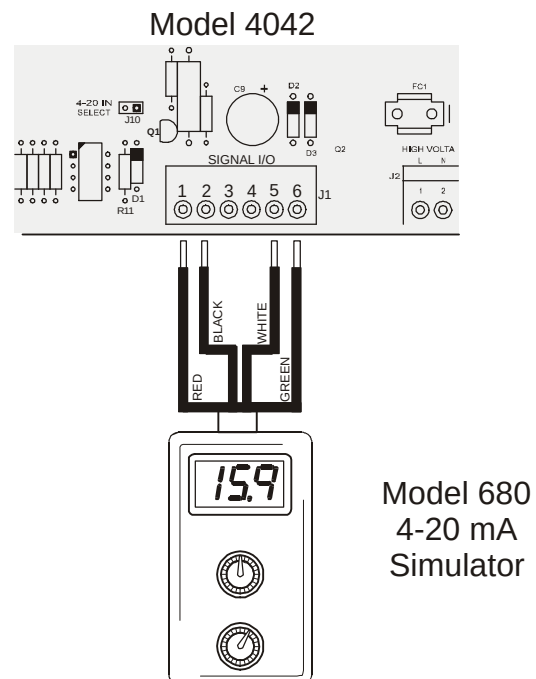
To a 24VDC Power Supply: Using the **Model 650 Loop Power Supply**, the black lead is connected to pin 5 (DC common ground) and the red lead is connected to pin 8 (+24VDC).

To the Current Loop: The Simulator's 4-20mA output is from the white lead (+) and the green lead (-). These may be connected directly to a device such as the **Model 4042 or 4082**. To connect the Simulator see typical application on this page.

TROUBLESHOOTING

Should this device fail to operate, check all wiring connections. Verify that the proper input source voltage is present and check all fuses. Should problems persist, contact the factory at (800) 862-2875 for assistance.

TYPICAL APPLICATION



WARRANTY

The **Model 680 4-20mA Simulator** is covered by Time Mark Corporation's exclusive **5-Year Unconditional Warranty**. Should this device fail, for any reason, within five years from the date of purchase, we will repair or replace it free. Contact the Time Mark Sales department, Monday through Friday; 8 a.m. to 5 p.m., CST, for further details.

Telephone: Main - (918) 438-1220
Sales - (800) 862-2875
Fax: (918) 437-7584

E-mail: sales@time-mark.com
Internet: http://www.time-mark.com



11440 East Pine Street
Tulsa, Oklahoma 74116

Doc No. 87A407 11/00
© 2000 TIME MARK CORPORATION

TIME MARK is a division of  AEMT, Inc.