SPECTO TECHNOLOGY

a world of solutions

mA Readout – User Guide

To read a mA sensor, follow the below instructions:

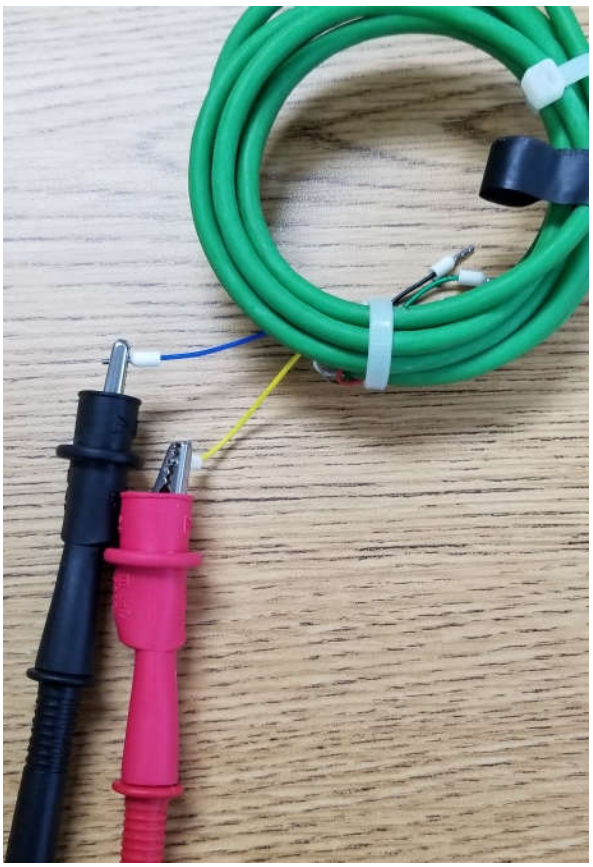
STEP	TASK	ACTION	IMAGE
1	Insert test lead	• Plug the red test lead into the red receptacle labeled +LOOP • Plug the black test lead into the red receptacle labeled mA	
2	Connect to mA sensor	• Connect the other end of the red test lead to the mA sensor wirer for POWER • Connect the other end of the black test lead to the mA sensor wire for RETURN	

+1 866 925 7737
info@spectotechnology.com
www.spectotechnology.com

3	Turn on the readout	• Turn the rotary switch on the readout to the position labeled mA-LOOP POWER (in white and yellow)	
4	View the mA reading	• The LCD display of the readout will display the current sensor reading in mA	

+1 866 925 7737
info@spectotechnology.com
www.spectotechnology.com

To read a thermistor sensor, follow the below instructions:

STEP	TASK	ACTION	IMAGE
1	Insert test lead	• Plug the red test lead into the red receptacle labeled VΩ • Plug the black test lead into the black receptacle labeled COM	
2	Connect to thermistor sensor	• Each thermistor has 2 wires with no polarity • Connect the other end of the red test lead to one of the wires of the thermistor • Connect the other end of the black test lead to the other wire of the thermistor	

+1 866 925 7737
info@spectotechnology.com
www.spectotechnology.com

3	Turn on the readout	• Turn the rotary switch on the readout to the position labeled Ω	
4	View the thermistor reading	• The LCD display of the readout will display the current resistance of the thermistor in kΩ • Use the Steinhart-Hart equation below to convert the resistance of the thermistor to temperature in degrees C: *Temperature = 1/(0.0014051 + 0.0002369*LN (resistance) + 0.0000001019*(LN (resistance))^3) - 273.15* Note: • The resistance value in Ω in the above formula • The above equation is for 3K thermistor only • The calculated temperature for 3.257 kΩ (shown on the right) is 23.1283 degrees C.	

+1 866 925 7737
info@spectotechnology.com
www.spectotechnology.com