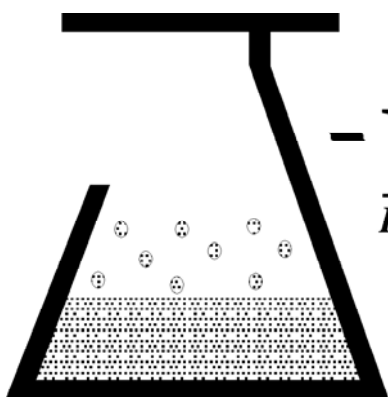


# Temperature Control for Research and Industry

## Digital Temperature Monitor



**- KEM Scientific, Inc.**  
*Instruments for Science from Scientists*

# Warranty

J-KEM Scientific, Inc. warrants this unit to be free of defects in materials and workmanship and to give satisfactory service for a period of 12 months from date of purchase. If the unit should malfunction, it must be returned to the factory for evaluation. If the unit is found to be defective upon examination by J-KEM, it will be repaired or replaced at no charge. However, this WARRANTY is VOID if the unit shows evidence of having been tampered with or shows evidence of being damaged as a result of excessive current, heat, moisture, vibration, corrosive materials, or misuse. This WARRANTY is VOID if devices other than those specified in Section 3.2 are powered by the controller. Components which wear or are damaged by misuse are not warranted. This includes contact points, fuses and solid state relays.

THERE ARE NO WARRANTIES EXCEPT AS STATED HEREIN. THERE ARE NO OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND OF FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT SHALL J-KEM SCIENTIFIC, INC. BE LIABLE FOR CONSEQUENTIAL, INCIDENTAL OR SPECIAL DAMAGES. THE BUYER'S SOLE REMEDY FOR ANY BREACH OF THIS AGREEMENT BY J-KEM SCIENTIFIC, INC. OR ANY BREACH OF ANY WARRANTY BY J-KEM SCIENTIFIC, INC. SHALL NOT EXCEED THE PURCHASE PRICE PAID BY THE PURCHASER TO J-KEM SCIENTIFIC, INC. FOR THE UNIT OR UNITS OF EQUIPMENT DIRECTLY AFFECTED BY SUCH BREACH.

## Service

J-KEM Scientific maintains its own service facility and technical staff to service all parts of the controller, usually in 24 hours. For service, contact:

J-KEM Scientific, Inc.  
6970 Olive Boulevard  
St. Louis, MO 63130 USA  
(314) 863-5536  
FAX (314) 863-6070  
Web site: <http://www.jkem.com>  
E-Mail: [jkem911@jkem.com](mailto:jkem911@jkem.com)

This manual contains parameters specific to temperature controller Serial # \_\_\_\_\_.  
When calling with a technical question, please have the controller's serial number available.

**You've purchased the most versatile controller available to the research community.** We're confident it can regulate ANY heating/cooling situation you'll ever encounter. If the information in this manual isn't adequate to make your application work, call our Engineering Department for assistance.

# Quick Operating Instructions

The two steps below are the basics of using your temperature monitor. For additional information or implementing additional functionality, contact J-KEM.

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**Place the thermocouple in the solution being heated.** Place at least the first 1/4" of the thermocouple directly in the solution being heated. Thermocouples can be bent without harming them. If you're heating a corrosive liquid, use a Teflon coated thermocouple. This monitor must be used with the proper thermocouple type for accurate temperature displays.

If the thermocouple jack on the back of the monitor is:

BLUE it must be used with a type T thermocouple.

YELLOW it must be used with a type K thermocouple.

BLACK it must be used with a type J thermocouple.

Turn power on to the temperature monitor.

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**Enter an over-temperature alarm setpoint** (i.e., the temperature at which the over-temperature alarm sounds). This unit is equipped with an audible alarm that sounds when the reaction temperature exceeded a user entered high temperature limit. To enter an alarm setpoint, hold in the \* button and simultaneously press the ▲ key to increase or the ▼ key to decrease the setpoint. The setpoint can be seen at anytime by holding in the \* button, the setpoint appears as a blinking number in the display.

The over temperature alarm can not be disabled, but if you don't want to use this feature simply enter a setpoint of 400° C, which virtually guarantees that an over-temperature condition will not be reached.

