PROGRAMMABLE TEMPERATURE RELAY

FEATURES:

- ♦ Inexpensive, microprocessor based design
- ♦ User programmable using GUI software
- ♦ Relay output, SPDT 1A contact
- ♦ Programmable hysteresis and minimum cycle timing
- ♦ Programmable LOCKOUT to prevent cycling after a certain temperature has been reached.
- ♦ Stand alone operation with remote monitoring option
- ♦ Set includes 10 k thermistor,

SPECIFICATIONS:

Power: 12 to 24 VDC or 18-24VAC (100mA minimum). **12VDC Recommended**

Input: Single NTC 10 k thermistor in brass tubing (provided),

Output: Form C output relay (rated 1A @ 24 VDC/VAC) (low voltage)

Indication: Status - Green LED
solid = Power ON
flashing = Thermistor wiring fault

Temperature Range: -25°C to 100°C (-13°F to 212°F)

Dimensions: 1" x 2.25 " (26 x 57 mm) , board mounts in TR-1 plastic snap track (provided)

Computer Interface: serial communications via RS232 port, Windows® based software provided

APPLICATION:

The ETTR may be used as a simple temperature controller, providing on/off relay output for fans, heaters, shut off valves and safety systems. Because of its software adjustable parameters, the product is highly customizable - an ideal solution for many OEM temperature control applications.

PRODUCT DESCRIPTION:

The ETTR is a programmable temperature relay with the ability to act as an ON/OFF temperature controller. The device is capable of fully stand alone operation, but may be monitored and programmed with the custom software and a serial RS232 interface.

The unit may be programmed to work in various modes:
Range - will turn the relay on between two defined temperature values
Setpoint (Heating/Cooling) - will turn the relay (off/on) above a set value, and (on/off) above a second set value
Manual - Allows manual (via PC) control of the output relay

The span between the temperatures in Setpoint mode may be used to adjust the hysteresis of the device. An adjustable short cycle timer may be configured to prevent rapid cycling of the relay.

A lockout feature is implemented to prevent to maintain the output relay status after it switches. This may be used in an alarm condition to alert the operator that an over/under temperature situation occurred.

The GUI allows monitoring of the temperature, and provides information on the status of the device (including communication timeouts and Thermistor wiring errors). The GUI also allows logging of temperature data to an ASCII text file in a semi-colon delimited format which may
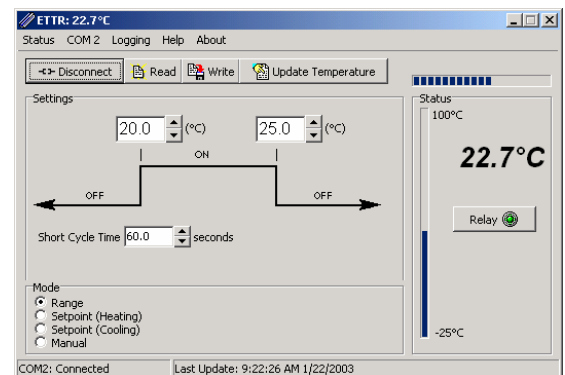
*Sample programming screen - **range mode** shown*