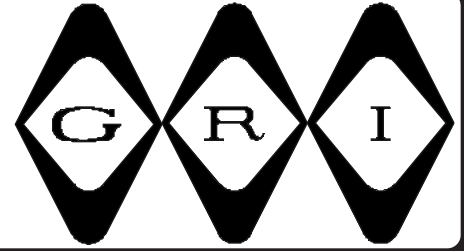


PROGRAMMABLE THERMSTAT



Digital Thermal Sensor With Memory Backup ThermStat-3

The ThermStat-3 is a temperature monitoring, programmable, electronic instrument. Capable of monitoring temperatures in four (4) locations, one local and 3 remote, at the same time, the unit will automatically detect and display the address and temperature of each remote probe attached to the unit.

A sleek 3.5" x 5" x 3/4" in size, the ThermStat-3 features a high and low, programmable temperature limit, to within 5 degrees of each other. The unit uses built-in Hysteresis to eliminate multi alarms generated by a single event and has an easy to read backlit (LCD) Liquid Crystal Display, programmable to show temperature in Fahrenheit or in Celsius, of each reporting location. Integrated outputs include a C form Relay and three (3) solid state outputs. The ThermStat-3 uses advanced microprocessor technology for maximum reliability, accuracy and ease of operation, for all monitoring and/or control applications.



- Single C Form Relay Outputs, 3 Solid State Outputs
- Local Temperature Range 32-120 Degrees Fahrenheit (0 to 48° C)
- Up To 3 Remote Temperature Probes Optional
- Remote Probe Temperature Range -30 to 250 Degrees Fahrenheit (-35 to 121 C) Optional
- **Defrost Cycle** Up To 120 Minutes
- Temperature Readout in Fahrenheit Or Celsius
- Back Lit LCD Display
- Accuracy to +/- .9° Fahrenheit (+/- .5°C)
- Programmable Hi and Low Temperature Limits
- Trip Limits to Within 4° Fahrenheit (2° C) Between High and Low Limits
- Hysteresis Offset Adjustable
- Memory Backup For All User Programmed Information
- Sounder
- Input Voltage 7.5 to 12 Volts DC
- Relay Contact Current of 1.0 Amps. Solid State Outputs .25A
- Relay Contact Resistance < 1 Ohm, Solid State Outputs, 4 Ohms Typical

Applications: Home or Office, Greenhouses, Computer Rooms, Animal Shelters, Warehouses, Freezers, Walk-in Coolers, Equipment Rooms, And Many More!

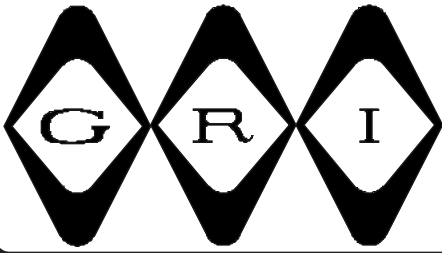
GEORGE RISK INDUSTRIES, INC.
GR.I. PLAZA
KIMBALL, NE 69145



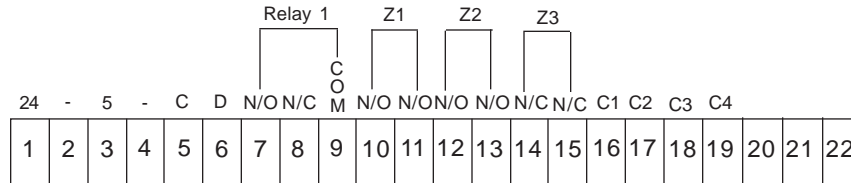
MADE IN U.S.A.

TOLL-FREE 1-800-445-5218
TOLL-FREE 1-800-523-1227
(308) 235-4645

FAX (308) 235-3561
E-MAIL: grisales@megavision.com
WEB SITE: www.grisk.com



PROGRAMMABLE THERMSTAT-3



Sensor and Control Connection:

Connector Description

1 -	positive input power terminal		
2 -	negative input power terminal		
3 -	5 volt output terminal Red (Probe)	16 - 'C1'	Closed Loop 1 Input
		17 - 'C2'	Closed Loop 2 Input
		18 - 'C3'	Closed Loop 3 Input
		19 - 'C4'	Closed Loop 4 Input
7 - R1, n/o	Relay, normally open terminal		
8 - R1, n/c	Relay, normally closed terminal		
9 - R1, com	Relay, common terminal	20 -	White (Probe)
		21 -	Green (Probe)
		22 -	Black (Probe)
10 - Z1, n/o	Solid State output, normally open terminal		
11 - Z1, n/o	Solid State output, normally open terminal		
12 - Z2, n/o	Solid State output, normally open terminal		
13 - Z2, n/o	Solid State output, normally open terminal		
14 - Z3, n/c	Solid State output, normally closed terminal		
15 - Z3, n/c	Solid State output, normally closed terminal		

Current Draw

With No Probes	70 mA in idle
For Each Probe	add 20 mA
Backlight on	add 50 mA
In Alarm (sounder)	add 50 mA
Mechanical Relay	add 80 mA

Example

ThermStat	70 mA
2 Probes	40 mA
Backlight on	50 mA
Total	160 mA in idle
Alarm	add 80 mA
Total	240 mA

Maximum Current Draw is 310 mA.
Solid State alarm output does not add to current draw.
One mA equals one thousandth of an amp.

TP-1



HTP-1

Optional Remote Temperature Probes:

Standard:	TP-1	TP-2	TP-3
High Temperature:	HTP-1	HTP-2	HTP-3

Only the stainless steel probe can be submersed in a non-reactive liquid. Do not submerge the wire.

WARRANTY:

One year warranty against workmanship, material and factory defects

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