



High Country Tek, Inc.

3 Channel Thermistor Simulator Unit

Part No.: **999-10194**

Electronic Control Solutions for the Global Fluid Power Industry



Features:

- Simulates up to 3 separate 2 wire resistive type temperature sensors
- Manual control of temperature setpoints for **HFS**, **HFS-2** and **HFS-J** controllers
- Operating range of approx. 13°C (56F) to approx. 135°C (275F)
- Allows controller test, configuration and set-up
- Quick and easy connections to controller inputs
- Heavy duty 20AWG, individually color coded wires



Operational Information:

Temp (°C)	Temp (°F)	Res (Ohms)	Temp (°C)	Temp (°F)	Res (Ohms)	Temp (°C)	Temp (°F)	Res (Ohms)
-40	-40	100865	25	77	2795	90	194	241.8
-35	-31	72437	30	86	2240	95	203	207.1
-30	-22	52594	35	95	1806	100	212	178.0
-25	-13	38583	40	104	1465	105	221	153.6
-20	-4	28582	45	113	1195	110	230	133.1
-15	5	21371	50	122	980	115	239	115.7
-10	14	16120	55	131	809	120	248	100.9
-5	23	12261	60	140	671	125	257	88.3
0	32	9399	65	149	559	130	266	77.5
5	41	7263	70	158	469	135	275	68.3
10	50	5658	75	167	395	140	284	60.3
15	59	4441	80	176	334	145	293	53.4
20	68	3511	85	185	283	150	302	47.5

Cable color	Function
Red	Thermistor 1
Black	Thermistor 1
Blue	Thermistor 2
Orange	Thermistor 2
Green	Thermistor 3
White	Thermistor 3

Fig.1

Note: Chart colors (left) indicate approximate operational range of adjustment for each channel.

Application Information:

1. The simulator unit, 999-10194, has 2 color coded (see table Fig. 1) wires for each thermistor channel.
 2. The wires are NOT polarity sensitive and can be connected either way round at the controller.
 3. User should connect these two wires to the controller sensor inputs in place of a real resistive temperature sensor.
 4. Simulator and real thermistor sensor should NOT be connected at the same time or false results will occur
- This equipment is designed for temporary use and NOT for permanent installation.
 - care should be taken when used around strong RF fields i.e. walkie talkies e.t.c.

◆ **Intended for use with the HCT range of fan system controller modules - HFS, HFS-2, HFS-2Q, HFS-J.**

Specification Data:

Potentiometer Type:	Plastic film	Cable Type:	6 core, non screened
Potentiometer Rotation:	0-270 degrees	Cable Length:	4 feet / 1.3 M
Output Type:	Resistive	Cable designation:	color coding
Box dimensions:	L= 6" x W= 4" x H= 2"	Cable gauge:	20 AWG
Box material:	Black ABS plastic	Physical Protection:	Cable strain relief
Operating Temperature:	0°C (32F) to ~60°C (140F)	Overall Weight:	1lb / 0.5 Kg
Storage Temperature:	-10°C (14F) to + 70°C (158F)	Protection:	IP54 / NEMA 3



- ❖ Mining & Exploration
- ❖ Agriculture
- ❖ Cranes & lifts
- ❖ Refuse & Recycling
- ❖ Construction
- ❖ Off-Road vehicles
- ❖ Forestry, Wood & Pulp
- ❖ Reclamation & Salvage
- ❖ Oil Field & Sands
- ❖ Demolition Equipment
- ❖ Cooling Solutions
- ❖ Military Apparatus
- ❖ Specialty Use
- ❖ Remote Control
- ❖ Power Generation
- ❖ Emission Controls
- ❖ Integrated Drivers
- ❖ Valve & Pump Controls



HCT Product Sales and Support:

For a full list of authorized distributors worldwide, please visit:

www.hctcontrols.com/distributors/index.htm

For more information:

Customer Service:

To discuss anything in this brochure, order product, get price and delivery or book a training course, please send an e-mail to us at: info@hctcontrols.com

www.hctcontrols.com



High Country Tek, Inc.

208 Gold Flat Court
Nevada City, CA, 95959
Tel: (1) 530 265 3236
Fax: (1) 530 265 3275

