

## MODEL 1820

### RF PRODUCTS

- Keeps RF Mounts at operating temperature 24/7
- Reduces system down-time
- Saves you time and money
- Provides constant, regulated power control to one or two mounts
- LEDs and Analog Meters are conveniently located on the front panel
- Economical, easy to use, compact and light-weight
- One-year warranty



### Operation

The 1820 consists of two separate temperature controllers. Each control circuit has an LED indicator that illuminates when the temperature reaches 60 °C. Each control circuit has a meter movement that, when stopped, indicates stability at 60 °C. A thermistor mount is ready to use when the LED is illuminated and the meter movement is stable. The two outputs are via front panel four-pin audio connectors. The instrument is fused for safety.

## RF Mount Heater

The Model 1820 RF Mount Temperature Controller provides a stable power source for one or two Precision RF Coaxial Power Standards (mounts). The Model 1820 maintains the mount at operating temperature, reducing warm up time. Simply connect the mounts and in two hours they are temperature stable. Leave the mounts connected and they remain at operating temperature. Connect the mount to your Model 1804, Model 1806 or System II at any time and begin to take measurements.

The 1820 is an economical alternate voltage controller, providing a stable source to the mount's internal thermal coils which is essential for

thermistor temperature elevation. This is critical for RF Mount stability and performance. This unit is compatible with all TEGAM mounts.

The 1820 is designed to be used on the bench or in a rack. Two mounts can be placed in the Mount Stabilizing Plate on the top of the unit. The Mount Stabilizing Plate can also be purchased separately and used on a bench or other work surface.

Standard equipment includes two 12-inch four-wire temperature control cables with knurled lock collars. An optional three-foot temperature control cable is also available. An easy-to-follow manual provides step-by-step instructions on its operation and maintenance.



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## Specifications

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### Temperature Controller

Bias Power Temperature Sensitivity	2mW/°C per hour
Mount Warm-Up Time	2 hours nominal
Ambient Temperature Dynamic Range	+12°C to +32°C
Internal Temperature	+60°C nominal
Loop Gain	80 dB minimum
Open Loop Frequency Response	0.1 Hz
Warm-Up Drive (saturated)	15 V @ 200mA minimum
Indicator	Voltmeter

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### Temperature Range

Operating	+10 to +40°C (+50° to 104°F)
Storage	-40 to +75°C (-40° to +167°F)

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### Connectors

2 x 4 pin microphone (audio) connector.

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### Power Requirements

105-125 or 210-250 Vac, 47 to 420 Hz, 12 Watts (factory optional)

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### Weight

Net 6 lbs. (2.72 kg)

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### Physical Dimensions

Height	91.96 mm (3.62 in)
Width	250.00 mm (9.84 in)
Depth	260.00 mm (10.24 in)

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### Rack Mounting

The Model 1804 can be shelf mounted in any cabinet or rack designed according to EIA RS-310 and MIL-STD-189

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