

Model 1820

RF CALIBRATION AND MEASUREMENT PRODUCTS

- Keeps RF Mounts at operating temperature 24/7
- Reduces system down-time
- Saves you time and money
- Provides constant, regulated temperature 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



RF Mount Temperature Controller

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, 1806A 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 RF Power Standards.

The 1820 is designed to be used on the bench or in a rack. Two mounts can be placed either on top of, behind or beside the unit. 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.



Prices and specifications subject to change without notice.

TEGAM®

YOUR GLOBAL SOURCE FOR TEST
AND MEASUREMENT SOLUTIONS

Model 1820

RF MOUNT TEMPERATURE CONTROLLER

Specifications

Temperature Controller

Bias Power Temperature Sensitivity	2 μ W/°C per hour
Mount Warm-Up Time	2 hours
Ambient Temperature Dynamic Range	+12 °C to +40 °C (+54 °F to +104 °F)
Internal Mount Temperature	+60 °C (140 °F) nominal
Loop Gain	80 dB minimum
Open Loop Frequency Response	0.1 Hz
Warm-Up Drive (saturated)	8-10 V @ 200 mA minimum
Indicator	Voltmeter and green LED

Temperature Range

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

Connectors

2 x 4 pin microphone (audio) connector

Power Requirements

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

Weight

2.72 kg (6 lb)

Physical Dimensions

Height	85.61 mm (3.37 in)
Width	250.00 mm (9.84 in)
Depth	260.00 mm (10.24 in)

Rack Mounting

The Model 1820 can be shelf mounted in any cabinet or rack designed according to EIA RS-310 and MIL-STD-189

Included Accessories

Temperature Control Cable (x 2)	P/N CLB-1820-2
Power Cord	P/N 068-21
Manual	P/N 1820-900-01CD

Optional Accessories

Z540 Compliant Calibration with Certificate and Data for 1820	P/N OPT-Z540
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