



# 产品 手 册

# 仪器型号: <u>AR放大器200T4G8</u>

# 西安安泰测试科技有限公司

# 仪器维修|租赁|销售|测试

地址:西安市高新区纬二十六路 369 号 网址: <u>www.agitekservice.com</u> 电话: 400-876-5512 座机: 029-88827159



### Features

# 200T4G8

- M1, M3-M5
- 200 Watts CW
- 4GHz-8GHz

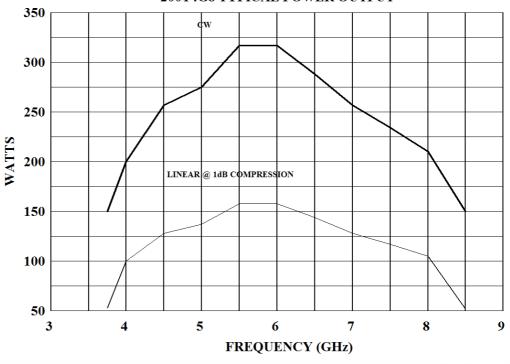
The Model 200T4G8 is a self contained, forced air cooled, broadband traveling wave tube (TWT) microwave amplifier designed for applications where instantaneous bandwidth and high gain are required. A reliable 250 watt TWT provides a conservative 200 watts minimum at the amplifier output connector. Stated power specifications are at the fundamental frequency.

The amplifier's front panel digital display shows forward and reflected output plus extensive system status information accessed through a series of menus via soft keys. Status indicators include power on, warm-up, standby, operate, faults, excess reflected power warning and remote. Standard features include a built-in IEEE-488 (GPIB) interface, 0 dBm input, VSWR protection, gain control, RF output sample port, plus monitoring of TWT helix current, cathode voltage, collector voltage, heater current, heater voltage, baseplate temperature and cabinet temperature. Modular design of the power supply and RF components allow for easy access and repair. Use of a switching mode power supply results in significant weight reduction.

Housed in a stylish contemporary cabinet, this unit is designed for benchtop use but can be removed from cabinet for rack mounting. The Model 200T4G8 provides readily available RF power for a variety of applications in Test and Measurement, (including EMC RF susceptibility testing), Industrial and University Research and Development, and Service applications.

See Model Configuration for package alternatives.

The export classification for this equipment is EAR99. These commodities, technology or software are controlled for export in accordance with the U.S. Export Administration Regulations. Diversion contrary to U.S. law is prohibited.



### 200T4G8 TYPICAL POWER OUTPUT

AR RF/Microwave Instrumentation 160 School House Rd Souderton, PA 18964 215-723-8181

For an applications engineer call:800.933.8181

www.arworld.us

### Specifications

## 200T4G8

- M1, M3-M5
- 200 Watts CW
- 4GHz-8GHz

POWER (fundamental), CW, @ OUTPUT CONNECTOR:				
Nominal:	262 watts			
Minimum:	200 watts			
Linear @ 1	dB Compression: 100 watts minimum			

FLATNESS: ±6 dB maximum at rated power

FREQUENCY RESPONSE: 4-8 GHz instantaneously

INPUT FOR RATED OUTPUT: 1.0 milliwatt maximum

GAIN (at maximum setting): 53 dB minimum

GAIN ADJUSTMENT (continuous range): 35 dB minimum

INPUT IMPEDANCE: 50 ohms, VSWR 2.0:1 maximum

OUTPUT IMPEDANCE: 50 ohms, VSWR 2.5:1 typical

**MISMATCH TOLERANCE:** Output power foldback protection at reflected power exceeding 40 watts. Will operate without damage or oscillation with any magnitude and phase of source and load impedance. May oscillate with unshielded open due to coupling to input. Should not be tested with connector off. **MODULATION CAPABILITY:** Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal. AM peak envelope power limited to specified power.

NOISE POWER DENSITY: Minus 64 dBm/Hz maximum; Minus 70 dBm/Hz, typical

HARMONIC DISTORTION: Minus 4 dBc maximum; Minus 7.0 dBc typical

**PRIMARY POWER:** 190-260 VAC, 50/60 Hz single phase, 2.0 KVA maximum

### CONNECTORS:

RF input:	Type N female on rear panel		
RF output:	Type N female on rear panel		
RF output sample port:	Type N female on rear panel		
GPIB:	IEEE (f) on rear panel		
Interlock: DB-15 (f) on rear panel			

**COOLING:** Forced air (self contained fans), air entry and exit in rear.

**EXPORT CLASSIFICATION: EAR99** 

### Model Configurations

Model Number	Description	Weight	Size (W x H x D)
200T4G8	With removable enclosure	54 kg (120 lb)	50.3 x 29.7 x 68.6 cm
			19.8 x 11.7 x 27 in
200T4G8M1	Shipped without an outer cabinet	41 kg (90 lb)	48.3 x 26.7 x 68.6 cm
			19.0 x 10.5 x 27 in
200T4G8M3	Enclosure removed for rack mounting –	43 kg (95 lb)	48.3 x 26.7 x 68.6 cm
	slides and front handles installed		19.0 x 10.5 x 27 in
200T4G8M4	See separate specification sheet.		
200T4G8M5	Enclosure removed. Side carry handles	41 kg (90 lb)	48.3 x 26.7 x 68.6 cm
	and front pull handles installed		19.0 x 10.5 x 27 in

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