

Dual-Channel High-Voltage WideBand Amplifier

MODEL 9200



- High voltage output to 300Vp-p ($\pm 150V$)
- Output current to 100mA per channel
- Wideband range to over 500 KHz
- Slew rate to 200V/ μ s
- Low distortion
- Low cost
- Custom Configuration of:
 - Gain
 - Signal Ground

Model 9200 is a Dual-Channel, 2U, half-rack size, bench-top power amplifier designed for signal amplification. With unprecedented signal purity, Model 9200 amplifies signals from dc to over 500KHz. The unit has a fixed gain of x15 however the same amplifier is available with custom gain and no signal purity or performance degradation whatsoever.

Solves Common Problems

Model 9200 operates as an amplifying buffer for signals emitted from waveform, function, or pulse generators. Most of these generators produce signals limited to 20Vp-p into high impedance. Model 9200 can convert these voltages to levels as high as 300Vp-p. The amplifier has a current driving capability of $\pm 100mA$ per channel from a 0.1 Ω source. While the output can drive small capacitive or inductive loads, for full high speed potential it is recommended that the load characteristics should be mainly resistive. Model 9200 can withstand load capacitance and inductance up to 0.01 μ F and 0.5mH without any performance deterioration

Ground Level

The advanced power amplifier is supplied with floating input and output connectors allowing flotation from ground level up to 250Vdc. The only limitation is that both the input and output grounds must connect to the same level. This capability is extremely important in applications where the amplifying device must reside on the same ground level as its source. The floating capability can be added or removed using a simple, user-accessible, jumper connection.

Target Applications

The amplifier case was designed to stack on top or below other Tabor products. It also can be mounted alongside a Tabor generator in a standard 19" rack. The waveform-amplifier combo is an ideal solution for virtually any high-voltage, wide bandwidth application.

Cost Effective Solution

Priced at around \$2700, the Model 9200 power amplifier is yet another of Tabor's cost-effective solutions for a full range of high voltage applications.

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Service and Support

Beyond providing precision Test & Measurement instruments, Tabor Electronics provides unparalleled service and support, and is continuously finding new ways to bring added value to its customers.

Our after-sales services are comprehensive. They include all types of repair and calibration, and a single point of contact that you can turn to whenever you need assistance. As part of our extensive support, we offer individualized, personal attention Help Desk, both online and offline, via e-mail, phone or fax.

Tabor Electronics maintains a complete repair and calibration lab as well as a standards laboratory in Israel and USA. Service is also available at regional authorized repair/calibration facilities.

Contact Tabor Electronics for the address of service facilities nearest you.

Applications

For expert technical assistance with your specific needs and objectives, contact your local sales representative or our in-house applications engineers.

Manuals, Drivers, and Software Support

Every instrument comes equipped with a dedicated manual, developer libraries, IVI drivers, and software. However, if your specific manual is lost or outdated, Tabor Electronics makes it possible to log-on to its Download Center and get the latest data "in a click".

Product Demonstrations

If your application requires that you evaluate an instrument before you purchase it, a hands-on demonstration can be arranged by contacting your local Tabor Electronics representative or the Sales Department at our Corporate Headquarters.

Three-year Warranty

Every Tabor Electronics instrument comes with a three-year warrantee. Each one has full test results, calibration certificate, and CD containing product's manual and complete software package. Our obligation under this warranty is to repair or replace any instrument or part thereof which, within three years after shipment, proves defective upon examination. To exercise this warranty, write or call your local Tabor representative, or contact Tabor Headquarters and you will be given prompt assistance and shipping instructions.

CORPORATE HEADQUARTERS

9 Hattasia St. P.O.Box404,
Tel Hanan, Israel 20302
☎ +972 (4) 8213393
☎ +972 (4) 8213388
www.taborelec.com

EUROPE

Austria
UEI-Viena
☎ +43 15451 588
☎ +43 15451 464

Belenlux (Belgium, The Netherlands and Luxembourg)
BFI Optilas B.V.
☎ +31 172 44 60 60
☎ +31 172 44 34 14

Bulgaria
New-Tek Ltd.
☎ +359 296 25286
☎ +359 268 7110

Cyprus
Sprel Ltd.
☎ +357 2237 7159
☎ +357 2237 7284

Czech Republic & Slovakia
Testovací Technika s.r.o.
☎ +420 2 7478 2237
☎ +420 2 7478 1285

Denmark
Atimco AS
☎ +45 8625 8899
☎ +45 8625 5889

France
Racal Instruments SAS
☎ +33 1 3923 2205
☎ +33 1 3923 2225

Germany
Compulless Elektronik GmbH
☎ +49 89 321501-0
☎ +49 89 321501-11

Greece
American Technical Enterprises S.A.
☎ +30 210 5240 740
☎ +30 210 5249 995

Hungary
ProMet Merestechnika
☎ +36 24 521 240
☎ +36 24 521 253

Italy
LP Instruments srl
☎ +39 2 4840 1713
☎ +39 2 4840 1852

Norway
Nortelco AS
☎ +47 2257 6100
☎ +47 2257 6130

Poland
Helmar
☎ +48 22 436 3106
☎ +48 22 436 3110

Romania
InterNET SRL
☎ +40 21 312 1662
☎ +40 21 312 1663

Russia
CDIP
☎ +7 0959 56 2022
☎ +7 0959 56 2022

Spain & Portugal
Instrumentos De Media SL
☎ +34 91 300 0191
☎ +34 91 388 5433

Sweden & Finland
Ferner Elektronik AB
☎ +46 8 760 8360
☎ +46 8 760 8341

Switzerland
Elstar Elektronik AG
☎ +41 56 427 1888
☎ +41 56 427 1976

United Kingdom & Ireland
SEMATRON UK Ltd.
☎ +44 1256 812222
☎ +44 1256 812666

Yugoslavia (Bosnia, Croatia, Macedonia, Montenegro, Serbia, Slovenia)
Mechanic & Electronic Measurement
☎ +43 1943 4254
☎ +43 1943 4251

ASIA PACIFIC & JAPAN

Australia
Trio Test & Measurement Solutions
☎ +61 8 8234 0504
☎ +61 8 8234 0130

India
AIMIL Ltd.
☎ +91 11 2695 0001
☎ +91 11 2695 0011

Japan
TOYO Corporation
☎ +81 3 3279 0771
☎ +81 3 3246 0645

Korea
ITB Corporation
☎ +82 2 549 8501
☎ +82 2 549 8502

New Zealand
Electrotest Ltd.
☎ +64 9 448 2600
☎ +64 9 448 2611

Philippines
Sunley Inc.
☎ +63 2751 1216
☎ +63 2815 0730

Singapore, Thailand & Vietnam
Gold Lite Engineering Pte Ltd.
☎ +65 6273 0487
☎ +65 6273 5006

Taiwan, China & Hong Kong
Precision International Corp.

Taiwan
☎ +886 2 85124888
☎ +886 2 85124900

China & Hong Kong
☎ +86 21 64401300
☎ +86 21 64400524

AFRICA

South Africa
Channels Measurement
☎ +27 11 254 8362
☎ +27 11 254 8451

MIDDLE EAST
Israel
Dan-EI Technologies Ltd.
☎ +972 3 9271888
☎ +972 3 9271666

Turkey
Alfatek Test & Automation Ltd.
☎ +90 216 474 7355
☎ +90 216 474 7357

UNITED STATES US SALES & SUPPORT OFFICE

☎ +1 909 7970484
☎ +1 909 7974955

IL, IN, IA, KS, KY, MN, MO, NE, ND, SD, WI
Base Eight, Inc.
☎ +1 847 670 1680
☎ +1 847 670 1737

AZ, CO, ID, MT, NM, TX, EI Paso, UT, WY
Berry Technical Sales Inc.
☎ +1 303 665 9116
☎ +1 303 833 1294

AR, LA, OK, TX
Data Marketing Associates Inc.
☎ +1-972 661 0300
☎ +1 972 490 0836

OH, WV, PA, MI
Dytec EAST
☎ +1-330 405 8311
☎ +1 330 405 8313

DC, MD, VA
Eastern Instrumentation Corp.
☎ +1 410 884 7303
☎ +1 410 884 7306

PA, NJ
EI Philly
☎ +1 856 231 0668
☎ +1 856 231 9022

HAW, NV, CA
Sierra Technical Sales
☎ +1 510 713 9957
☎ +1 510 713 9958

NJ, NY
Tera Technologies Inc.
☎ +1 888 921-TERA
☎ +1 888 449 2799

CT, ME, MA, NH, RI, VT
Test-Rep Associates, Inc.
☎ +1 978 692 8000
☎ +1 407 839 0337

AL, FL, GA, MS, NC, SC, TN
W.A Brown Instruments
☎ +1 407 648 9660
☎ +1 407 839 0337

CA, NV
W5 Inc.
☎ +1 949 212 1199
☎ +1 714 281 0767

CANADA
Testforce Systems Inc.
☎ +1 514 856 0970
☎ +1 514 856 6983

LATIN AMERICAS SALES & SUPPORT OFFICE
☎ +1 440 543 7710
☎ +1 440 543 9681



TABOR ELECTRONICS Ltd.

Specification Dual-Channel High-Voltage WideBand Amplifier

Model 9200



INPUT CHARACTERISTICS

Number of channels: 2
Connector: BNC
Impedance: 1M Ω , DC coupled
Damage Level: 50Vp-p
Frequency Range: DC to 500KHz

OUTPUT CHARACTERISTICS

Specification is given for the standard configuration only

GENERAL

Connector: BNC
Impedance: 0.1 Ω , DC coupled
Protection: Short-circuit, 10 seconds
Gain: x15, fixed (can be ordered from factory with different gain setting)
Polarity: Output normal
Amplitude: 0 to 300Vp-p ($\pm 150V$)

SQUARE WAVE CHARACTERISTICS

Transition Time: <1.5 μ s
Aberrations: <15%

SINE WAVE CHARACTERISTICS

Bandwidth: -3dB
 Small Signal 1MHz, at 20Vp-p
 Large Signal 500KHz, at 300Vp-p
Accuracy: \pm (2% of full-scale amplitude range + 25mV), Square wave at 1KHz
THD: <0.1%, 10Hz to 10KHz<1.2%, 10KHz to 200KHz

ENVIRONMENTAL

Operating Temperature: 0 - 50°C
Humidity: RH 80% (non-condensing)
Storage Temperature: -30°C - 80°C

GENERAL

Physical Size: 2U, half-rack size
Power Requirements: 100V/115V/230V, 47-63Hz, <60W
Dimensions: 3.5" x 8.3" x 15.4" (HxWxL)
Weight: Approximately 13Lbs
Signal Ground: Floated to the same level as the source, 250V dc maximum
EMC Certification: CE marked
Reliability: MTBF per MIL-HDBK- 217E, 25°C, Ground Benign
Safety: Designed to meet IEC EN61010-1, UL 3111-1
Workmanship Std: Conform to IPC-A-610D
Supplied Accessories: Power Cord, CD containing Operating Manual
Warranty: 3 years standard

ORDERING INFORMATION

Dual-Channel, High-Voltage WideBand Amplifier,

| | |
|-----------------------|---|
| MODEL | 9200-15-G ⁽¹⁾ |
| Gain: | 10 through 20 , fixed ⁽²⁾ |
| Signal Ground: | G = Tied to Ground; F = Floated Ground |

⁽¹⁾ Standard Configuration

⁽²⁾ Custom gain from x10 to x20 can be ordered however, bandwidth cannot be maintained. Consult the factory before ordering gain above 15.



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