



Plug-in Modularity

The 9210's pulse output characteristics are determined by the selection of one of three available output modules. The main-frame performs all timing, triggering, interface, and control functions. In this way, the 9210 can meet a wide range of pulse generation applications... from the large amplitude requirements of analog device characterization to the sub-nanosecond transition times required by today's fast digital IC's.

Straightforward, Versatile Controls

- 1. Display:** Large blue keys select the display of pulse, triggering, or control parameters for adjustment.
- 2. Select:** The touch-screen CRT selects individual parameters (like pulse width) for adjustment.
- 3. Enter:** Parameter values can be quickly entered using the numeric keypad, the 1-2-5 sequence rotary ring, or the fine analog rotary control knob.

Highest Precision and Accuracy

The 9210 uses a 12-bit ADC and a high resolution TDC to make nearly 1000 calibration measurements to guarantee timing accuracies of <0.5% and edge placement resolution to 10 psec.

Automatic Load Compensation

Test fixtures and jigs can often introduce slight variations in load impedance. The load compensation capability of the 9210 delivers the programmed pulse level to any load from 47 Ω to 1 M Ω .

Constant Phase Mode

Constant Phase Mode on the 9210 maintains a constant phase relationship between two channels, even when varying the repetition rate during simultaneous clock and data simulation.

GPIB Programmable

Fully GPIB (IEEE 488.2) compatible with an easy-to-understand, plain English command set and syntax. A built-in GPIB command monitor aids in rapid debugging of automated test programs.

5 Year Warranty, By Design

The 9210 Pulse Generator has a unique five year warranty. It's not an extended warranty... it's the standard warranty. The 9210 is guaranteed to meet its specs, continuously and reliably, for five full years.

This type of warranty is made possible by designing in plenty of margin in the 9210's components and specifications. Component and connector counts are low, cooling is generously provided, and automated testing routines are extensive.

9200 Series, 300 MHz Programmable Pulse Generator

Main Features

Modular Architecture - Achieves an exceptionally wide range of pulse characteristics. Output modules can be mixed in any combination within the mainframe, making future upgrades as simple as plugging in a new module. Plug-in modules provide:

- Variable edge pulses (1 nsec to 1 msec) at rates to 250 MHz
- Fast 300 psec edges to 300 MHz
- Wide output swings to 32 V at pulse rates to 50 MHz

Unparalleled Accuracy and Precision

The 9210 features 10 psec resolution with $\pm(0.5\% + 200 \text{ psec})$ timing accuracy. DC amplitude accuracy is 1%. Accuracy is guaranteed by the built-in calibration system. Automatic load compensation delivers true programmed amplitudes even with non 50 Ω loads.

Easy, Intuitive Operation

- Setting the operating parameters couldn't be easier! A bright CRT display shows all related settings at a glance. Pulse parameters and trigger settings are accessible with a single keystroke. Individual parameters are selectable from on-screen system or front-panel select keys. Displays automatically match installed modules. An on-screen graphical icon shows the pulse parameter being affected and setting conflicts are highlighted to prevent setup errors. Up to 16 setup configurations can be stored and recalled from non-volatile memory.



Control Without Compromise -

Choose the data entry method you prefer, digital or analog. Use the full-featured keypad to enter parameter values with digital precision and speed.

Use the concentric knob if you prefer the interactive analog feel. The analog knob provides both coarse range selection and vernier control, with key-selectable vernier sensitivity.

The 9210 is also fully GPIB compatible, with an easy-to-understand command set and syntax. A built-in command monitor aids in rapid debugging of your test programs.

All this at a Price You Can Afford -

Compare the cost of the Model 9210 with that of comparable instruments. Even with all its innovative features and high performance, the Model 9210 is significantly more affordable than its competition.