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NEW PRODUCT ANNOUNCEMENT

DUAL CHANNEL 5 AMPERE PULSED

CONSTANT CURRENT GENERATOR

Model designation: AV-156C-C-P-AB1.

Number of channels: Two (A and B) each with separate amplitude and pulse width controls.

Delay: Channel B may be delayed with respect to Channel A via a four-digit thumbwheel switch in the range 0.0 to 999.9 ms.

Output amplitude: 0.00 to 4.99 Amp. Controlled by a three-digit thumbwheel switch.

Output pulse width: 0.0 to 9.9 ms. Controlled by a two-digit thumbwheel switch.

Load voltage range: 0 to +25 Volts. A "Load Limit Warning" indicator will light if the output voltage exceeds 25V.

Output current regulation: $\leq 1\%$ for load voltage change from +25 to 0 Volts.

Rise, fall time: $\leq 10 \mu\text{s}$ (10 to 90%), into a resistive load.

Pulse repetition frequency:
External trigger: (TTL) 0 to 1.0 Hz. A protective diode clamp limits the input voltage to between -0.7V and +7.0V.

External trigger: (manual) 0 to 1.0 Hz. Manual push button for single pulse operation (push button is rated for 5 million operations).

Maximum duty cycle: 10%.

Automatic overload function protects instrument and lights the "Reduce Duty Cycle" indicator if maximum duty cycle is exceeded due to excessively fast triggering or internal failure.

External trigger: TTL, PW $\geq 50 \text{ ns}$.

Standby mode: Each channel can be switched between ARMED and STANDBY modes by pushing a push button switch (the push button is rated for 5 million operations). After each pulse or instrument start-up, the channel will go into standby mode (standby mode disables triggering and shorts the output to ground).

Monitor outputs: Each channel provides a monitor output, which monitors the voltage drop across a 0.5 Ohm resistor in series with the current output (eg. a 5A pulse will produce a 2.5V pulse on the monitor output).

Output protection: The output protection will prevent reverse currents (due to accidentally connecting the A and B inputs together) and will protect against open circuits. The current monitor will accurately reflect these zero-current conditions.

Tolerances: $\pm 2\%$ accuracy on delay AB, pulse width and amplitude controls. $\pm 2\%$ accuracy on monitor output. Each of these controls and the monitor outputs will have user-accessible trim pots inside the instrument to allow for more accurate calibration.

Dimensions: (H x W x D) 100 mm x 430 mm x 375 mm (3.9" x 17" x 14.8").

Face plate: See attached drawing.

Chassis material: Aluminum. Anodized aluminum front panel with cast aluminum side panels (with gray plastic trim) and aluminum top and bottom panels with gray plastic trim (chassis is as per our Model AV-1010-C).

Connectors: BNC.

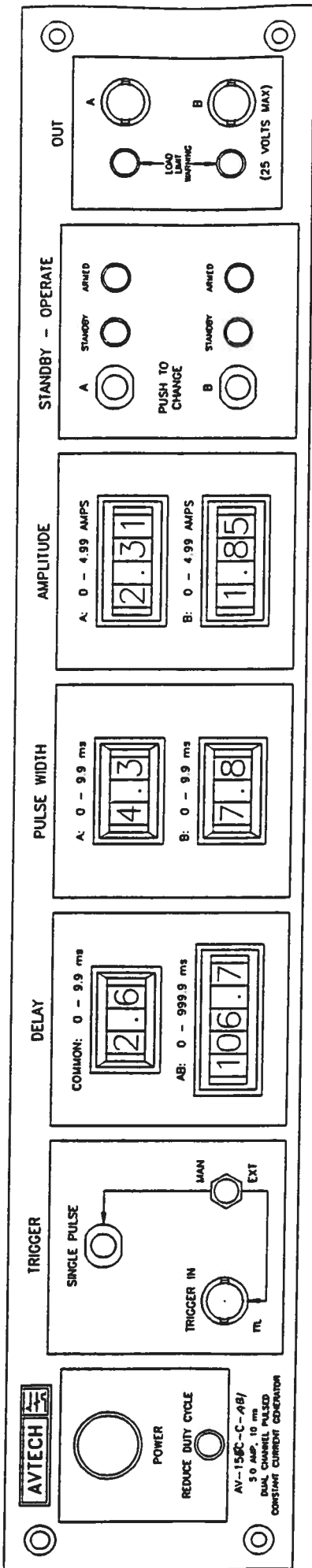
Rack mounting: Includes -R5 rack mount kit for 19" rack mounting.

Prime power: 120/240V, 50-60 Hz.

Price: \$4,498.00 US

FOB: Destination.

Delivery: 60 days ARO.



March 7/97

Disk: NEWPROD

Name: AV-156C-.C