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## INSTRUCTIONS

MODEL AVX-D-PS-SUA PULSE GENERATOR

> S.N. :


INPUT AND OUTPUT WAVEFORMS FOR AVTECH MODEL AVX-D-4-PS DELAY GENERATOR

## WARRANTY

Avtech Electrosystems Ltd. warrants products of its manufacture to be free from defects in material and workmanship under conditions of normal use. If, within one year after delivery to the original owner, and after prepaid return by the original owner, this Avtech product is found to be defective, Avtech shall at its option repair or replace said defective item. This warranty does not apply to units which have been dissembled, modified or subjected to conditions exceeding the applicable specifications or ratings. This warranty is the extent of the obligation or liability assumed by Avtech with respect to this product and no other warranty or guarantee is either expressed or implied.

## SPECIFICATIONS

MODEL AVX-D-4-PS

Input trigger:
Delay M:

Delay AB:

Output pulse width
( A and B ) :

Output amplitude ( A and B ):

Output rise and fall time:

PRF range:
Input and output connectors:

Prime power:

Chassis size:

TTL 20 ns or wider
Variable from 0.5 us to 50 ms via front panel 10 turn locking pot and a 5 position range switch

Variable from 0.5 us to 50 ms via front panel 10 turn locking pot and a 5 position range switch
0.5 to 50 us (ten position range switch and a one turn control)

0 to +15 Volts to 50 Ohms

100 ns

0 to 4 kHz
BNC
$120 / 240$ V. $50-60 \mathrm{~Hz}$ switchable. Detachable cord with fuse
$4 \times 6 \times 8$ inches


FRONT PANEL CONTROLS
(1) ON-OFF Switch. Applies basic prime power to all stages.
(2) IN. BNC input trigger connector TTL level 20 ns or wider pulse.
(3) DELAY M. 10 turn locking pot varies relative delay between OUT A and input trigger from 0.5 us to 50 ms .
(4) DELAY AB. 10 turn locking pot varies relative delay between OUT $B$ and OUT $A$ from +0.5 us to 50 ms independently of setting of DELAY M.
(5) OUT A. BNC connector provides output pulse to 50 Ohm load.
(6) OUT B. BNC connector provides output pulse to 50 Ohm load.
(7) AMP A. One turn control varies output amplitude for A from 0 to +15 V .
(8) AMP B. One turn control varies output amplitude for $B$ from 0 to +15 V .
(9) PW A. One turn control varies output pulse width for A from 0.1 to 1.0 us.
(10) PW B. One turn control varies output pulse width for B from 0.1 to 1.0 us.
(11) AVX-D units with a serial number higher than 5600 are protected by an automatic overload protective circuit which controls the front panel overload light. If the unit is overloaded (by operating at an exceedingly high duty cycle), the protective circuit will turn the output of the instrument OFF and turn the indicator light ON. The light will stay $O N$ (i.e. output OFF) for about 5 seconds after which the instrument will attempt to turn ON (i.e. light OFF) for about 1 second. If the overload condition persists, the instrument will turn OFF again (i.e. light ON) for another 5 seconds. If the overlond condition has been removed, the instrument will turn on and resume normal operation. Overload conditions may be removed by:

1) Reducing PRF (i.e. switch to a lower range)
2) Reducing pulse width (i.e. switch to a lower range)
3) Remove short circuit (if any)

BACK PANEL CONTROLS


(1) FUSED CONNECTOR, VOLTAGE SELECTOR. The detachable power cord is connected at this point. In addition, the removable cord is adjusted to select the desired input operating voltage. The unit also contains the main power fuse (0.25A SB).
(2) 1.0A SB. Fuse which protects the output stage if the output duty cycle rating is exceeded.

