

MODEL AVX-D-4A-PS-OP1-LIB

INSTRUCTIONS ADDENDUM

REAR PANEL CONTROLS

A "FRZ/ADJ" (Freeze/Adjust) switch has been added to the rear panel of the instrument. If the pulse width or delay is jumping between steps, the "FRZ/ADJ" switch can be used to stop the jumping. This switch is used in the LOCAL mode only. When the switch is in the "ADJ" position, the front panel delay and pulse width controls operate normally. When the switch is in the "FRZ" position, the front panel settings are "frozen" at their current setting. Adjusting the front panel controls when the switch is in the "FRZ" position will have no effect.

UPDATED CALIBRATION DATA - OCT 31/97

All time intervals are measured with the HP5370A Time Interval Counter, using 10000 averaged samples
Delays are measured between the rising edge of the "IN" pulse and the rising edge of the "A" or "B" output pulse.
All jitter measurements were performed with the HP5370A, using the standard deviation of 10000 samples
The delay generator is triggered with a AV-1000-C pulse generator, at 10kHz.
The delay generator settings were programmed from the GPIB.

S/N 8131

	<u>Setting</u> (μ s)	<u>Measured</u> (μ s)	<u> Measured Deviation </u> (μ s)	<u>Allowed Deviation</u> (μ s)	<u>RMS Jitter</u> (ps)
<u>Delay</u>	1.500	1.51	0.01	0.12	66
with	5.000	4.95	0.05	0.18	129
A=5	10.00	9.95	0.05	0.25	230
B=5	15.00	14.93	0.07	0.33	319
	20.00	19.98	0.02	0.40	410
	25.00	25.00	0.00	0.48	498
	30.00	30.06	0.06	0.55	589
<u>PW A</u>	0.500	0.491	0.009	0.040	49
with	1.000	1.020	0.020	0.055	54
D=1.5	2.00	2.063	0.063	0.085	72
B=5	3.00	3.062	0.062	0.115	105
	4.00	4.024	0.024	0.145	129
	5.00	4.933	0.067	0.175	136
<u>PW B</u>	0.500	0.492	0.008	0.040	44
with	1.000	1.023	0.023	0.055	51
D=1.5	2.00	2.074	0.074	0.085	76
A=5	3.00	3.084	0.084	0.115	97
	4.00	4.056	0.056	0.145	115
	5.00	4.988	0.012	0.175	138