

1100 SERIES XY RECORDERS

Replaces Hewlett Packard 7044[®]/7045[®]

The Plotamatic[®] 1100 Series XY Recorders are a family of high performance analog servo drive instruments. All models offer high sensitivity, are available with high acceleration and either inch or centimeter calibration. A wide range of chart sizes are accommodated including ISO A3, ISO A4, ANSI B and ANSI A. The 1100 Series can be configured to be a form, fit and function replacement of Hewlett Packard's 7044 and 7045 recorders. OEM and HP 7040[®]/7041[®] configurations may also be specified.

HP INTERFACE OPTION

Allen Datagraph 1100 Series Recorders have the same dimensions as the Hewlett Packard 7044/7045 recorders, so they can fit into existing rack openings. The HP interface option provides our recorder with the plug and function compatibility of the Hewlett Packard Models 7044/7045, (7040 and 7041 configuration is jumper selectable.) This option allows the user to directly replace their HP system recorder without having to change cables, function commands, or rack opening. The 1100 Series HP Interface Option supports all 7044, 7045, 7040 and 7041 functions.

BRIDGE POWER SUPPLY OPTION

This option simplifies the recording of transducer signals by providing an adjustable excitation voltage of +5 to +15 VDC. 50 mA (350 Ohms) which can be tapped from the rear signal input connector or from a terminal strip on models with the HP Interface Option. The power supply is current limited at 80 milliamperes to prevent damage to sensitive transducers. This option may be specified for one or two channels.

ADDITIONAL FEATURES

- Ultra stable IC circuitry requires no additional servo compensation or loop gain adjustments.
- Servo feedback is provided by sealed follow-up potentiometers which do not require cleaning.
- Electronic overdrive circuitry protects recorder from off-scale inputs.

1100 Series Model Selection					
MODEL	ACCELERATION	SENSITIVITIES	TIME BASE RANGES	CALIBRATED OFFSET	
				Sensitivity	Offset
1144E	Standard, 5G (2000 in/sec/sec)	0.05, 0.1, 0.2, 0.5, 1, 2, 5, 10, 20 mV and V/inch plus VARIABLE GAIN	0.5, 1, 2, 5, 10, 20, 50, 100, 200, 500, 1000 sec/in	0.5, 0.1, 0.2, 0.5 mV 1, 2, 5, 10, 20 mV 0.5, 0.1, 0.2, 0.5 V 1, 2, 5, 10, 20 V	0 to +/- 100 mV 0 to +/- 1000 mV 0 to +/- 100 V 0 to +/- 1000 V*
1144M	Standard, 5G (5080 cm/sec/sec)	0.025, 0.1, 0.25, 0.5, 1, 2.5, 5, 10, mV/cm and V/cm plus VARIABLE GAIN	0.25, 0.5, 1, 2.5, 5, 10, 25, 50, 100, 250, 500 sec/cm	0.025, 0.05, 0.01, 0.25 mV 0.5, 1, 2.5, 5, 10 mV 0.025, 0.05, 0.01, 0.25 mV 0.5, 1, 2.5, 5, 10 mV	0 to +/- 100 mV 0 to +/- 1000 mV 0 to +/- 100 V 0 to +/- 1000 V*
1145E	High, 10G (4000 in/sec/sec)	0.05, 0.1, 0.2, 0.5, 1, 2, 5, 10, 20 mV and V/inch plus VARIABLE GAIN	0.5, 1, 2, 5, 10, 20, 50, 100, 200, 500, 1000 sec/in	0.5, 0.1, 0.2, 0.5 mV 1, 2, 5, 10, 20 mV 0.5, 0.1, 0.2, 0.5 V 1, 2, 5, 10, 20 V	0 to +/- 100 mV 0 to +/- 1000 mV 0 to +/- 100 V 0 to +/- 1000 V*
1145M	High, 10G (10160 cm/sec/sec)	0.025, 0.1, 0.25, 0.5, 1, 2.5, 5, 10, mV/cm and V/cm plus VARIABLE GAIN	0.25, 0.5, 1, 2.5, 5, 10, 25, 50, 100, 250, 500 sec/cm	0.025, 0.05, 0.01, 0.25 mV 0.5, 1, 2.5, 5, 10 mV 0.025, 0.05, 0.01, 0.25 mV 0.5, 1, 2.5, 5, 10 mV	0 to +/- 100 mV 0 to +/- 1000 mV 0 to +/- 100 V 0 to +/- 1000 V*