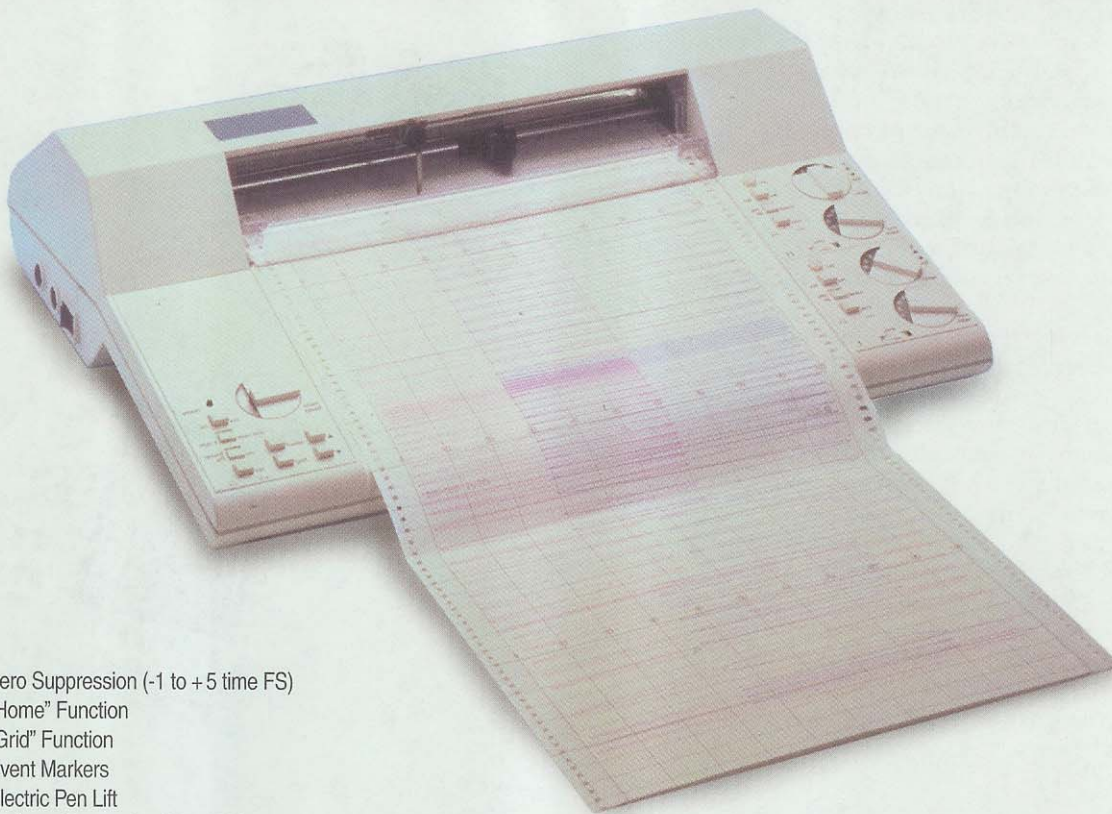


# Flatbed Recorders



- Zero Suppression (-1 to +5 time FS)
- "Home" Function
- "Grid" Function
- Event Markers
- Electric Pen Lift
- 13 Input Ranges (1mV to 10V)

## SPECIFICATIONS

<b>Input Ranges</b>	1mV to 20V in 14 calibrated steps (1-2-5)
<b>Variable Ranges</b>	40 to 100% FS
<b>Accuracy Of Span</b>	Better than 0.3% FS
<b>Non-Linearity</b>	Better Than 0.3% FS
<b>Dead Zone</b>	<0.2% FS
<b>Pen Response Time</b>	<0.2 sec for 5 to 99% FS
<b>Input Impedance</b>	1 M $\Omega$ DC 10K $\Omega$ in series with 1.5m+ $\mu$ F for AC
<b>Input</b>	Floating, non symmetric
<b>Input Bias Current</b>	<5 nA
<b>Isolation</b>	Between channel and between channel and power supply more than 50M $\Omega$
<b>Maximum Input Voltage</b>	On input terminals 42VDC/30VAC max. Between channels 500VDC max.
<b>Common Mode Rejection</b>	130 dB
<b>Zero Adjustment</b>	-50 to +150% FS
<b>Zero Position</b>	Selectable right hand or left hand side on the paper
<b>Zero Suppression</b>	6 calibrated steps -100, 0, +100 to +500% FS
<b>Zero Drift</b>	<1 m+cV/ $^{\circ}$ C
<b>Chart Speeds</b>	0.1-0.2-0.5-1-2-5-10-20 mm/min or mm/sec
<b>Timebase</b>	Crystal or mains synchronized
<b>Chart Paper</b>	25 m rolls according to DIN 16230
<b>Chart Life</b>	4100 hr at lowest chart speed-20 min at highest chart speed
<b>External Output</b>	TTL level signal, paper moves 0.05 mm per pulse. Dividend set with chart speed selector (1, 2, 5, 10, 20, 50, 100, 200 x1, x60)
<b>Pen Lift</b>	Electric. Pens are lifted automatically if the chart has not been moved for more than 30 seconds
<b>Safety</b>	According to CSA/C22-2 and VDE 411
<b>Disturbance</b>	According to FCC, class B
<b>Ambient Temperature Range</b>	Operating -10 to +40 $^{\circ}$ C Storage -40 to +75 $^{\circ}$ C
<b>Humidity</b>	35-85% RH, non condensing
<b>Power Supply</b>	Selectable 110V/220V -15% +20%; 5060/Hz 30VA single channel 50VA dual channel
<b>Built According To</b>	CSA and VDE
<b>Dimensions</b>	380 x 290 x 90 (W x D x H) mm <sup>3</sup>
<b>Weight</b>	3.5 kg unpacked

Catalog No.	Description
KN42112	Single Pen Flatbed Recorder
NISTR1	NIST Traceable Certificate
NISTR2	NIST Traceable Certificate with Data
<b>Chart Paper</b>	
KN42115	Chart Rolls, Linear Graduations, 10 Rolls/Box
<b>Disposable Pens for Channel 1 of Flatbed Recorders</b>	
KN42117	Red, Box of 6
KN42118	Blue, Box of 6
KN42119	Green, Box of 6
KN42120	Black, Box of 6
<b>Disposable Pens for Channel 2 of Recorders</b>	
KN42121	Red, Box of 6
KN42122	Black, Box of 6