

GRAPHTEC



205 Westwood Ave
Long Branch, NJ 07740
1-877-742-TEST (8378)
Fax: (732) 222-7088
salesteam@Tequipment.NET

Linearcorder MARK VII WR3320A Series

NEW!!



High-Speed Frequency Response Thermal writing

140Hz High speed frequency response and crisp, clear traces by a thermal writing

The WR3320A boasts a frequency response of DC to 140Hz as the highest speed thermal writing pen osillograph. Chart speeds can be set in seven steps in both the 5 to 500mm/s and 5 to 500mm/min ranges and thermal pens ensure crisp, clear traces.

Multiple Remote Control Functions

Seven kinds of remote control functions are available for automation recording and step-up.

- Synchronization chart feed by pulse and voltage signal
- Time mark by timing pulse
- Event mark by event signal
- Pen heat ON/OFF
- Control of chart start ON/OFF, and signal output for external equipment
- Paper end signal
- Internal timing pulse output

Optional Versatile Recording and Printing Functions

The WR3320A has an optional annotation function that prints the date, time (real or elapsed), and chart speed. ASCII codes input from external devices can be used to print alphanumeric and symbols (Direct record and command control record).

Selectable channel variation for various purposes

The WR3320A can be configured as a 2-, 4-, 6-, or 8-channel 140Hz recorder with an amplitude of 40mm per channel, or as a 1-, 2-, 3-, or 4-channel 60Hz recorder with an amplitude of 80mm per channel.

Continuous Recording Up To 200 Meters

Both roll and Z-fold paper can be used with the WR3320A.

A 100m length stock inside the recorder, while an optional Z-fold chart supply box (For 8ch model only) with a chart stock tray enables the use of 200m length.

0.2% Highly Accurate Chart Feed

The stepper motor and sprocket chart drive eliminate chart wander and enable an accuracy of 0.2%

WR3320A Series

Specifications (Main unit)																
Model	WR3320A -2H				-4H	-6H	-8H	WR3320A -1DH		-2DH	-3DH	-4DH				
No. of Cannel	2		4		6		8		1		2		3	4		
Pen motor	GS3310							GW3310								
Amplitude	±20mm							±40mm								
Recording method	Heat-sensitivepaper and thermal pen (Black)															
Circuit form	DC Servo															
Accuracy	Within ±0.5% of full scale (including non-linearity and dead-band)															
Frequency response (1Hz reference)	10mmP-P : 0 to 140Hz (+5~-10%) 20mmP-P : 0 to 100Hz (+5~-10%) 40mmP-P : 0 to 60Hz (+5~-10%)							20mmP-P : 0 to 60Hz (+5~-10%) 40mmP-P : 0 to 45Hz (+5~-10%) 80mmP-P : 0 to 30Hz (+5~-10%)								
Reference voltage	1V (Accuracy ±0.2%)															
Paper feed speed	5, 10, 25, 50, 100, 250 and 500mm/sec or mm/min 0.5, 1, 2.5, 5, 10, 25 and 50mm/sec or mm/min <Accuracy: ±0.2% ±0.5mm>															
	External synchronization feed (50mm/sec max) *Switching of pulse input or voltage input control							<Accuracy> Pulse input control : ±0.2% ±0.5mm Voltage input control : ±2.0% ±0.5mm								
Time marker	One mark every 1 or 10s or 1 or 10min (Accuracy: ±0.1%), and remote control by external contact closure or TTL signal (Time marker mode or Event marker mode)															
Event marker	Push-button operation, or external control (contact closure or TTL signal)										—					
Remote paper feed	Remote paper feed External contact closure or TTL signal															
Remote paper harter	Remote paper feed External contact closure or TTL signal															
Paper rewind	50mm/sec (Roll paper only)							—								
Annotation printing (optional: A-380)	Internal printing : Date, time (elapsed or real), and chart speed External printing : Alphanumeric, symbols by ASCII codes input from external devices															
Power requirement	AC 100-117-220-240V ±10%, 50/60Hz							—								
Power consumption *1 H: 10mm p-p 140Hz DH: 20mm p-p 60Hz Paper feed speed: 500mm/sec	250VA		340VA		450VA		560VA		155VA		190VA		240VA		300VA	
Dimensions (mm)	W : 430 x H : 187 common															
(Tolerance:±3mm)	199 (D)		289 (D)		379 (D)		450 (D)		199 (D)		289 (D)		379 (D)		450 (D)	
Weight (approx.) *1	13kg		17kg		25kg		26kg		12kg		15kg		22kg		22kg	
Operating environment	0 to 45°C. 30 to 85% RH															

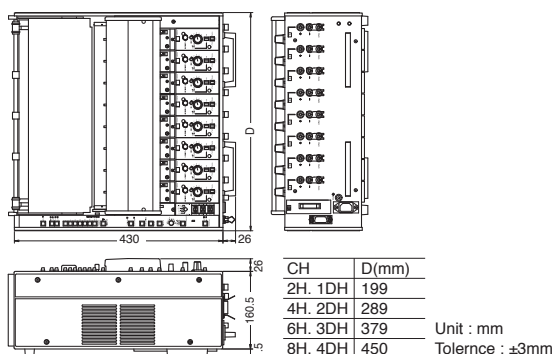
*1 Power consumption and weight include pre-amplifiers.

Specifications (Pre-amplifier)		
Model	AH3301A	AH3302A
Maximum sensitivity	1mV/cm	0.5mV/cm
Measurement range (Switching accuracy)	1, 2, 5, 10, 20, 50, 100, 200, 500mV/cm 1, 2, 5, 10, 20, 50, 100, 200, 500V/cm	0.5, 1, 2.5, 5, 10, 25, 50, 100, 250mV/cm 0.5, 1, 2.5, 5, 10, 25, 50, 100, 250V/cm
	±1% (with respect to 500mV/cm range)	±1% (with respect to 250mV/cm range)
Input resistance	1MΩ (fixed)	
Maximum input voltage	DC 500V (including common mode voltage)	
Sensitivity adjustment	Settable anywhere within full measurement range	
Calibration voltage	Measurement range x 2 (20mm)	Measurement range x 4 (40mm)
Zero position	Settable anywhere within full scale	
CMRR	AC : 120dB	
Input filter	Built-in (50Hz/60Hz/OFF, switchable)	
Compatible Pen motor	GS3310	GW3310

Standard accessories
● User's manual ● Chart Paper ● Input cables (Required channels) ● Soft plastic cover ● Philips screwdriver ● Flatblade screwdriver ● Allen wrench ● Storage bag for accessories ● Power cable ● Fuse 2.5A (2to6ch)/4A(8ch) ● Remote controls ● input connector (14pins) ● Cable for calibrated output

Options			Recording Paper (Black, 100m length)	
Description	Model		Roll Paper (5rolls/box)	Z-fold paper (5books/box)
Acrylic dustproof cover	WDC-201	For 2-ch model	PR410-2B-R5A	PZ410-2B-R5A
	WDC-202	For 4-ch model	PR412-4B-R5A	PZ412-4B-R5A
	WDC-203	For 6-ch model	PR413-6B-R5A	PZ413-6B-R5A
	WDC-204	For 8-ch model	PR414-8B-R5A	PZ414-8B-R5A
200m Z-fold paper supply box	A-329	For 8-ch model	PR420-1B-R5A	PZ420-1B-R5A
BNC converter plugs	SMA-101-4P	Banana to BNC, set of 4	PR422-2B-R5A	PZ422-2B-R5A
Printing function *2	A-380	—	PR423-3B-R5A	PZ423-3B-R5A
Rack mount brackets	A-334	For 8-ch model, inch	PR424-4B-R5A	PZ424-4B-R5A

*2 With one printing connector (16pins)



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