WX3000/WX4000

Technical Specs & Details

General | Roll-Chart (option) | Standard Accessories

General Specs

Number of pens 1			General Specs			
Recording area 381 mm x 254 mm 254 mm x 180 mm		WX3000-1	WX3000-2	WX4000-1	WX4000-2	
Recording system Digital servo drive	Number of pens	1	2	1	2	
Input circuit Pen types Disposable fiber-tip pens (Pen 1: red, Pen 2: black)	Recording area	381 mm :				
Pen types	Recording system	Digital servo drive				
Input polarity X. and Y. axis selectable by DIP switch (with 2-pen models, Y ₁ and Y ₂ axes are selected concurrently)	Input circuit	Ÿ				
Chart paper types Single-sheet (or roll for -R models, or standard models fitted with a roll paper stocker) Chart hold-down Electrostatic adhesion (with positioning lights for the paper) Measuring ranges 0.05, 0.1, 0.2, 0.5, 1, 2, 5, 10, 20, 50 100, 200, 500 mV/cm; 1, 2, 5, 10, 20, V/cm Calibration voltage Automatically applies signal equivalent to 10 cm amplitude Sensitivity adjustment Continuously variable between calibrated ranges Accuracy (at 20 V/cm range) SUPP OFF: ±0.25%/full-scale; SUPP ON: ±1%/full-scale ranges Accuracy SUPP OFF: ±0.45%/full-scale; SUPP ON: ±1%/full-scale ranges SUPP OFF: ±0.45%/full-scale; SUPP ON: ±1%/full-scale ranges SUPP OFF: ±0.45%/full-scale; SUPP ON: ±1%/full-scale ranges Set SUPP. ON for up to ±300% of full-scale, SUPP. OFF for up to 100% of full-scale. (If measuring range of 0.05, 0.1 mV/cm, or 20 V/cm are selected, SUPP. ON cannot be set) Input filter Maximum input voltage Common-mode rejection ratio Maximum pen speed Normal mode: 1500 mm/s along Xy-xaes; Fast mode: 2000 mm/s along Xy-xaes; Fast mode: 2000 mm/s along Xy-xas; Maximum acceleration X-axis: 6 G; Y-axis: 7 G Y-axis: 7 G Y-axis: 7 G Y-axis: 7 G Pen lift response Remote functions Pen UP/DOWN, Time-axis sweep START/RESET, Servo ON/OFF, Chart paper HOLD/FREE, X, Y, INPUT Time sweep speeds 0.02, 0.05, 0.1, 0.2, 0.5, 1, 2, 5, 10 cm/s and cm/min Time sweep speeds Oncomon-mode rejection Prints alist of recorder's setup parameters Question Prints a list of recorder's setup parameters 0.02, 0.05, 0.1, 0.2, 0.5, 1, 2, 5, 10 cm/s and cm/min Electronal dimensions (W x 0 x H) (mm) 500 V DC 100 V Series: 180 to 264 VAC, 50/60 Hz External dimensions (W x 0 x H) (mm)	Pen types	<u> </u>				
Chart hold-down	Input polarity	X- and Y- axis selectable by DIP switch				
Measuring ranges 0.05, 0.1, 0.2, 0.5, 1, 2, 5, 10, 20, 50 100, 200, 500 mV/cm; 1, 2, 5, 10, 20, V/cm	Chart paper types					
Calibration voltage	Chart hold-down	Elec	ctrostatic adhesion (with p	ositioning lights for the pa	aper)	
Continuously variable between calibrated ranges	Measuring ranges					
Accuracy (at 20 V/cm range) SUPP OFF: ±0.25%/full-scale; SUPP ON: ±1%/full-scale	Calibration voltage	Aut	Automatically applies signal equivalent to 10 cm amplitude			
Range switching accuracy SUPP OFF: ±0.45%/full-scale; SUPP ON: ±1%/full-scale accuracy Input impedance 1 MG2	Sensitivity adjustment		•			
Input impedance 1 Mi2		SUPP OFF: ±0.25%/full-scale; SUPP ON: ±1%/full-scale				
Permissible signal source resistance 1 kΩ or less		SUPP OFF: ±0.45%/full-scale; SUPP ON: ±1%/full-scale				
Set SUPP. ON for up to ±300% of full-scale, SUPP. OFF for up to 100% of full-scale, (iff measuring range of 0.05, 0.1 mV/cm, or 20 V/cm are selected, SUPP. ON cannot be set)	Input impedance	1 MΩ				
Input filter		1 kΩ or less				
Maximum input voltage	Zero suppression	Set SUPP. ON for up to ±300% of full-scale, SUPP. OFF for up to 100% of full-scale. (If measuring range of 0.05, 0.1 mV/cm, or 20 V/cm are selected, SUPP. ON cannot be set)				
voltage Common-mode rejection ratio 140 dB (AC), 150 dB (DC) Maximum pen speed Normal mode: 1500 mm/s along X-, Y-axes; Fast mode: 2000 mm/s along X-axis and 2200 mm/s along Y-axis Maximum acceleration X-axis: 6 G; Y-axis: 7.6 G X-axis: 4.5 G; Y-axis: 7.6 G X-axis: 7.6 G X-axis: 7.6 G Y-axis: 7 G	Input filter	Low-pass filter can be set to 1 Hz, 5 Hz, or OFF (-6 dB/octave)				
Normal mode: 1500 mm/s along X-, Y-axes; Fast mode: 2000 mm/s along X- axis and 2200 mm/s along Y-axis		500 VDC				
Naximum acceleration X-axis: 6 G; X-axis: 4.5 G; X-axis: 7.6 G Y-axis: 7.6 G Y-ax		140 dB (AC), 150 dB (DC)				
Pen lift response Remote functions Pen UP/DOWN, Time-axis sweep START/RESET, Servo ON/OFF, Chart paper HOLD/FREE, X, Y, INPUT Time sweep speeds Time sweep speeds O.02, 0.05, 0.1, 0.2, 0.5, 1, 2, 5, 10 cm/s and cm/min Time sweep accuracy Paper size selection Interface RS-232C (functions: setting and control of main unit; listing measurement settings, plotting) LIST function Prints a list of recorder's setup parameters Operating environment Power consumption Power requirements 100 V series: 90 to 132 VAC, 50/60 Hz; 200 V Series: 180 to 264 VAC, 50/60 Hz External dimensions (W x D x H) (mm) 7-axis: 7.6 G Y-axis: 7.6 G	Maximum pen speed					
Pen lift response Remote functions Pen UP/DOWN, Time-axis sweep START/RESET, Servo ON/OFF, Chart paper HOLD/FREE, X, Y, INPUT Time sweep control X-axis, Y ₁ -axis Time sweep speeds 0.02, 0.05, 0.1, 0.2, 0.5, 1, 2, 5, 10 cm/s and cm/min Time sweep accuracy Paper size selection A3, 250 x 250 mm, A4 portrait, A4 landscape (switch-selectable) Interface RS-232C (functions: setting and control of main unit; listing measurement settings, plotting) LIST function Prints a list of recorder's setup parameters Operating environment Power consumption Power requirements 100 V series: 90 to 132 VAC, 50/60 Hz; 200 V series: 180 to 264 VAC, 50/60 Hz External dimensions (W x D x H) (mm) Fenul Prints a list of recorder's setup parameters 430 x 310 x 110	Maximum acceleration		l '	l '	1 '	
Remote functions Pen UP/DOWN, Time-axis sweep START/RESET, Servo ON/OFF, Chart paper HOLD/FREE, X, Y, INPUT Time sweep control X-axis, Y ₁ -axis Time sweep speeds 0.02, 0.05, 0.1, 0.2, 0.5, 1, 2, 5, 10 cm/s and cm/min Time sweep accuracy Paper size selection A3, 250 x 250 mm, A4 portrait, A4 landscape (switch-selectable) A4 landscape (switch-selectable) Interface RS-232C (functions: setting and control of main unit; listing measurement settings, plotting) LIST function Prints a list of recorder's setup parameters Operating environment Power consumption Power requirements 100 V series: 90 to 132 VAC, 50/60 Hz; 200 V series: 180 to 264 VAC, 50/60 Hz External dimensions (W x D x H) (mm) A30 x 310 x 110	Pen lift response				1	
Time sweep control Time sweep speeds 0.02, 0.05, 0.1, 0.2, 0.5, 1, 2, 5, 10 cm/s and cm/min Time sweep accuracy Paper size selection Interface RS-232C (functions: setting and control of main unit; listing measurement settings, plotting) LIST function Prints a list of recorder's setup parameters Operating environment Power consumption Power requirements 100 V series: 90 to 132 VAC, 50/60 Hz; 200 V series: 180 to 264 VAC, 50/60 Hz External dimensions (W x D x H) (mm) Time sweep speeds 0.02, 0.05, 0.1, 0.2, 0.5, 1, 2, 5, 10 cm/s and cm/min ±1% of full-scale A4 landscape (switch-selectable) A4 landscape (switch-selectable) A4 landscape (switch-selectable) A5 landscape (switch-selectable) A6 landscape (switch-selectable) A7 landscape (switch-selectable) A8 landscape (switch-selectable) A6 landscape (switch-selectable) A7 landscape (switch-selectable) A8 landscape (switch-selectable) A7 landscape (switch-selectable) A7 landscape (switch-selectable) A8 landscape (switch-selectable) A8 landscape (switch-selectable) A8 landscape (switch-selectable) A9 lan		Pen UP/DOWN, Time-axis sweep START/RESET, Servo ON/OFF,				
Time sweep speeds Time sweep accuracy Paper size selection A3, 250 x 250 mm, A4 portrait, A4 landscape (switch-selectable) Interface RS-232C (functions: setting and control of main unit; listing measurement settings, plotting) LIST function Prints a list of recorder's setup parameters Operating environment Power consumption Power requirements 100 V series: 90 to 132 VAC, 50/60 Hz; 200 V series: 180 to 264 VAC, 50/60 Hz External dimensions (W x D x H) (mm) 100 V series: 200 V and x 110 A 30 x 310 x 110	Time sweep control					
Time sweep accuracy Paper size selection A3, 250 x 250 mm, A4 portrait, A4 landscape (switch-selectable) A4 landscape RS-232C (functions: setting and control of main unit; listing measurement settings, plotting) LIST function Prints a list of recorder's setup parameters Operating environment Power consumption Power requirements 100 V series: 90 to 132 VAC, 50/60 Hz; 200 V series: 180 to 264 VAC, 50/60 Hz External dimensions (W x D x H) (mm) 430 x 310 x 110	Time sweep speeds	(<u> </u>	in	
Paper size selection A3, 250 x 250 mm, A4 portrait, A4 landscape (switch-selectable) A4 landscape RS-232C (functions: setting and control of main unit; listing measurement settings, plotting) LIST function Prints a list of recorder's setup parameters Operating of to 40°C, 30 to 80% RH environment Power consumption Power requirements 100 V series: 90 to 132 VAC, 50/60 Hz; 200 V series: 180 to 264 VAC, 50/60 Hz External dimensions (W x D x H) (mm) A430 x 310 x 110						
LIST function Prints a list of recorder's setup parameters	`	A3, 250 x 250 mm, A4 portrait, A4 landscape				
LIST function Prints a list of recorder's setup parameters Operating environment 0 to 40°C, 30 to 80% RH Power consumption 200 VA maximum Power requirements 100 V series: 90 to 132 VAC, 50/60 Hz; 200 V series: 180 to 264 VAC, 50/60 Hz External dimensions (W x D x H) (mm) 560 x 400 x 110 430 x 310 x 110	Interface	RS-232C (functions: setting and control of main unit;				
environment 200 VA maximum Power consumption 200 VA maximum Power requirements 100 V series: 90 to 132 VAC, 50/60 Hz; 200 V series: 180 to 264 VAC, 50/60 Hz External dimensions (W x D x H) (mm) 560 x 400 x 110 430 x 310 x 110	LIST function					
Power requirements 100 V series: 90 to 132 VAC, 50/60 Hz; 200 V series: 180 to 264 VAC, 50/60 Hz External dimensions (W x D x H) (mm) 560 x 400 x 110 430 x 310 x 110						
200 V series: 180 to 264 VAC, 50/60 Hz External dimensions (W x D x H) (mm) 560 x 400 x 110 430 x 310 x 110	Power consumption		200 VA maximum			
(W x D x H) (mm)	Power requirements					
Weight (approx.) 10 kg 11 kg 7 kg 8 kg		560 x 400 x 110 430 x 310 x 110			10 x 110	
		10 kg	11 kg	7 kg	8 kg	

Roll Chart Feed/Take-up Specifications (optional)

	For WX3000-1R, -2R	For WX4000-1R, -2R	
Chart speeds	0.1, 0.2, 0.5, 5, 1, 2, 5 cm/s & cm/min; plus external (0.025 mm/pulse)		

Chart feed accuracy	Within ±1%		
Page length	550 mm	280 mm	
Renew function	Advances the paper (at 5 cm/s) to start of next page		
Ext. chart feed	Chart speed up to 5 cm/s (0.025 mm pulse, 0 to 2000 pulse/s; TTL-level signal input via the remote connector)		
Remote functions	Chart feed (synchronized to an external uplse); renew function; chart start/stop		
Weight (approx.)	3 kg	2.5 kg	
Compatible paper	SP319A (roll paper)	SP279 (roll paper)	

Standard Accessories

Item	Quantity
Power cable	1
Sheet paper, A3 (PL506) or A4 (PL121)	50 sheets
Recording pens: Pen 1, red (KX106-RD); Pen 2, black (KX106-BK)	2 each
Remote signal connector (FCN-361J032)	1
Input cable (RIC-01)	1 per axis
User's manual	1

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