

## 30 MHz Analog Oscilloscope

model

24205

- Dual or single trace operation 5 mV/div sensitivity
- AUTO/NORM triggered sweep operation with AC, TVH,TVV and line coupling
- Calibrated 23 step time base with x 10 magnifier
- Compact low-profile design

## Specifications

	ERS (Ch I and CH		
Sensitivity	5 mV/div to 5 V/div, 1 mV/div to 1 V/div at X5		
Attenuator	10 steps in 1-2-5 sequence. Vernier control provides full		
	adjustment between steps.		
Accuracy	±3%, ±5% at X5		
Input Resistance	Ι MΩ ±2%		
Input Capacitance	25 pF ±10pF		
Frequency Response	5 mV to 5 V/div: DC to 30 MHz (-3dB). X5: DC to 10 MHz (-3dB)		
Rise Time	12 ns (Overshoot $\leq$ 5%)		
Operating Modes	CH 1: CH 1, single trace		
CH 2	CH 2, single trace		
ALT	dual trace, alternating		
СНОР	dual trace, chopped		
ADD	agebraic sum of CH 1 + CH 2		
Polarity Reversal	CH 2 only		
Maximum Input Voltage	400  V (DC + AC peak)		
SWEEP SYSTEM			
Sweep Speed			e, 23 steps e sweep time between steps.
Sweep Speed Accuracy	Vernier control provides ±3%		
Sweep Speed	Vernier control provides		
Sweep Speed Accuracy Sweep Magnification TRIGGERING	Vernier control provides ± 3% 10x	fully adjustable	e sweep time between steps.
Sweep Speed       Accuracy       Sweep Magnification       TRIGGERING       Triggering Modes	Vernier control provides ± 3% 10x AUTO (free run) or NO	Fully adjustable	e sweep time between steps.
Sweep Speed         Accuracy         Sweep Magnification         TRIGGERING         Triggering Modes         Trigger Source	Vernier control provides ± 3% 10x	Fully adjustable	e sweep time between steps.
Sweep Speed         Accuracy         Sweep Magnification         TRIGGERING         Triggering Modes         Trigger Source         Maximum External	Vernier control provides ± 3% 10x AUTO (free run) or NO CH 1, CH 2, ALT, EXT,	Fully adjustable PRM, TV-V, TV- LINE	e sweep time between steps.
Sweep Speed Accuracy Sweep Magnification TRIGGERING Triggering Modes Trigger Source Maximum External Trigger Voltage	Vernier control provides ± 3% 10x AUTO (free run) or NC CH 1, CH 2, ALT, EXT, 300 V (DC + AC peak	Fully adjustable PRM, TV-V, TV- LINE	e sweep time between steps.
Sweep Speed Accuracy Sweep Magnification TRIGGERING Triggering Modes Trigger Source Maximum External Trigger Voltage Trigger Coupling	Vernier control provides ±3% 10x AUTO (free run) or NC CH 1, CH 2, ALT, EXT, 300 V (DC + AC peak AC 30 Hz to 30 MHz	; fully adjustable PRM, TV-V, TV- LINE )	e sweep time between steps.
Sweep Speed         Accuracy         Sweep Magnification         TRIGGERING         Triggering Modes         Trigger Source         Maximum External         Trigger Voltage         Trigger Coupling         TV H	Vernier control provides ±3% 10x AUTO (free run) or NC CH 1, CH 2, ALT, EXT, 300 V (DC + AC peak AC 30 Hz to 30 MHz Used for triggering from	s fully adjustable DRM, TV-V, TV- LINE ) 1 horizontal syr	e sweep time between steps. H
Sweep Speed         Accuracy         Sweep Magnification         TRIGGERING         Triggering Modes         Trigger Source         Maximum External         Trigger Voltage         Trigger Coupling         TV H         TV V	Vernier control provides ±3% 10x AUTO (free run) or NC CH 1, CH 2, ALT, EXT, 300 V (DC + AC peak AC 30 Hz to 30 MHz	s fully adjustable DRM, TV-V, TV- LINE ) 1 horizontal syr	e sweep time between steps. H
Sweep Speed           Accuracy           Sweep Magnification           TRIGGERING           Triggering Modes           Trigger Source           Maximum External           Trigger Coupling           TV H           TV V           TRIGGER SENSITIVITY	Vernier control provides ±3% 10x AUTO (free run) or NO CH 1, CH 2, ALT, EXT, 300 V (DC + AC peak AC 30 Hz to 30 MHz Used for triggering from	n horizontal sync p	e sweep time between steps. H nc pulses pulses
Sweep Speed         Accuracy         Sweep Magnification         TRIGGERING         Triggering Modes         Trigger Source         Maximum External         Trigger Coupling         TV H         TV V         TRIGGER SENSITIVITY         Coupling	Vernier control provides ±3% 10x AUTO (free run) or NO CH 1, CH 2, ALT, EXT, 300 V (DC + AC peak AC 30 Hz to 30 MHz Used for triggering from Used for triggering from Bandwidth	RM, TV-V, TV- LINE ) n horizontal syr n vertical sync p Int	e sweep time between steps. H nc pulses Julses
Sweep Speed         Accuracy         Sweep Magnification         TRIGGERING         Triggering Modes         Trigger Source         Maximum External         Trigger Voltage         Trigger Coupling         TV H         TV V         TRIGGER SENSITIVITY         Coupling         Auto	Vernier control provides ±3% 10x AUTO (free run) or NO CH 1, CH 2, ALT, EXT, 300 V (DC + AC peak AC 30 Hz to 30 MHz Used for triggering from Used for triggering from Bandwidth 100 Hz-30 MHz	RM, TV-V, TV- LINE ) n horizontal syr n vertical sync p Int 1.5 div	e sweep time between steps. H nc pulses pulses Ext 100 mV
Sweep Speed         Accuracy         Sweep Magnification         TRIGGERING         Trigger Source         Maximum External         Trigger Voltage         Trigger Coupling         TV H         TV V         TRIGGER SENSITIVITY         Coupling         Auto         Norm	Vernier control provides ± 3% 10x AUTO (free run) or NC CH 1, CH 2, ALT, EXT, 300 V (DC + AC peak AC 30 Hz to 30 MHz Used for triggering from Used for triggering from Bandwidth 100 Hz-30 MHz DC to 30 MHz	RM, TV-V, TV- LINE ) horizontal syn n vertical sync p Int 1.5 div 1.5 div	e sweep time between steps. H nc pulses Julses
Sweep Speed         Accuracy         Sweep Magnification         TRIGGERING         Triggering Modes         Trigger Source         Maximum External         Trigger Voltage         Trigger Coupling         TV H         TV V         TRIGGER SENSITIVITY         Coupling         Auto	Vernier control provides ±3% 10x AUTO (free run) or NO CH 1, CH 2, ALT, EXT, 300 V (DC + AC peak AC 30 Hz to 30 MHz Used for triggering from Used for triggering from Bandwidth 100 Hz-30 MHz	RM, TV-V, TV- LINE ) n horizontal syr n vertical sync p Int 1.5 div	e sweep time between steps. H nc pulses pulses Ext 100 mV

	2120B	
HORIZONTAL AMP	PLIFIER (Input through channel 2 input)	
X-Y Mode	Switch selectable using X-Y switch. CH 1: X axis	
CH 2	Y axis	
Sensitivity	Same as vertical channel 1	
Input Impedance	Same as vertical channel I	
Frequency Response	DC to 1 MHz typical (-3 dB)	
X-Y Phase Difference	Approximately 3° at 50 kHz	
Maximum Input Voltage	Same as vertical channel 1	
CRT		
Туре	Rectangular with internal graticule	
Display Area	$8 \times 10 \text{ div} (1 \text{ div} = 1 \text{ cm})$	
Accelerating Voltage	2 kV	
Phosphor	P31	
Trace Rotation	Electrical, front panel adjustable	
Other Spe	ecifications	
Calibrating Voltage	1 kHz ( $\pm$ 10%) Positive Square Wave, 2 V p-p ( $\pm$ 3%)	
ENVIRONMENT		
Within Specified		
Accuracy	50° to 95°F (10° to 35°C), ≤ 85% RH	
Full Operation	32° to 104°F (0° to 40°C), ≤ 85% RH	
Storage	-4° to 158°F ( -20° to +70°C)	
Power Requirements	100/120/220/240 VAC ±10%, 50/60 Hz,	

approximately 40 W.

AC Power Cord, Spare Fuse

7 x 14.5 x 17.25" (180 x 370 x 440 mm)

Instruction Manual, Two PR-33A x1/x10 Probes or equivalent,

OPTIONAL: PR-32A Demodulator Probe, PR-37A x1/x10/REF. Probe, PR-100A x100 Probe, PR-55 High Voltage x1000 Probe, LC-210A Carrying Case

Approximately 17.2 lbs (7.8 kg)

Dimensions (WxHxD)

Accessories

Weight

SUPPLIED:

## JAN BK PRECISION®

Two Year Warranty