

RACAL-DANA 1991 NANOSECOND UNIVERSAL COUNTER

TYPE: UNIVERSAL COUNTER



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GENERAL SPECIFICATIONS

GATE TIME (FREQUENCY,PERIOD AND RATIO MODES)	Automatically determined by resolution selected(range 1ms-10s)	
	Resolution selected	Gate time (seconds)
	9+overflow	10
	9	1
	8	0.1
	7	0.01
	6,5,4,3	0.001
DISPLAY	9 digit high brightness 14mmLED display in engineering format with exponent digit.	
WEIGHT	Net 3.63kg(8lb)	
DIMENSIONS	331×212×88mm	
VIBRATION	2g	
SHOCK	30g	

PARAMETER	STORAGE	OPERATING
Temperature	-40°C to +75°C at 75% RH	0°C to +50% C
Altitude	12000meters	3050meters

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INPUT CHARACTERISTICS:

FREQUENCY RANGE	input a input b	DC to 160 MHz DC-coupled 10 Hz to 160 MHz AC coupled DC to 100 MHz DC-coupled 10 Hz to 100 MHz AC coupled
SENSITIVITY	sine wave pulse	25mVrms DC to 100MHz 50mVrms to 160 MHz 75mV p-p, 5ns min. width
SIGNAL OPERATING RANGE	×1 attenuation ×10 attenuation	±5.1V ±51V
INPUT IMPEDANCE (×1 and ×10attenuation)	Separation mode Common mode	50 ohms or 1 Meg Ohm//≤45 pF 50 ohms or 1 Meg Ohm//≤55 pF
MAXIMUM INPUT (WITHOUT DAMAGE)	50 OHMS 1Meg OHM (×1 attenuation) 1Meg OHM (×10 attenuation)	5V (DC+AC rms) 260V (DC+AC rms), DC TO 2 kHz DECREASING TO 5V RMS AT 100 kHz AND ABOVE 260V (DC+AC rms), DC TO 2 kHz DECREASING TO 50V RMS AT 100 kHz AND ABOVE

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Coupling	AC or DC
Low pass filter	50kHz nominal
Trigger slope	+ve or -ve
Attenuator	×1 or ×10. In auto trigger mode attenuator selected automatically if necessary
Dynamic range (×1 attenuation)	75mV p-p to 5V p-p to 50MHz 75mV p-p to 2.5V p-p to 100MHz 150mV p-p to 2.5V p-p to 160MHz
Trigger level range Manual: X1 attenuation: X10 attenuation: Automatic:	±5.1V in 20 mV steps ±51V in 200 mV steps ±51V
Trigger level accuracy: Manual and Automation: X1 attenuation: X10 attenuation:	±30 mV ±1% of Trigger level reading ±300 mV ±1% of Trigger level reading

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Auto Trigger: Frequency range: Min. Amplitude(AC): X10 attenuator	DC and 50 Hz to 100 MHz (typically 160 MHz) Typically 150 mVp-p* Automatically selected if input signal exceeds $\pm 5.1V$ or $5.1Vp-p^*$
Trigger level outputs: (real panel) Range: Accuracy(relative to true Trigger level) X1 attenuation: X10 attenuation: impedance	$\pm 5.1V$ $\pm 1\% V$ output $\pm 10mV$ $\pm 1\% V$ output $\pm 100mV$ 10 Kohm nominal

POWER REQUIREMENTS

VOLTAGE	90-110 Vac 103-127 Vac 193-227 Vac 207-253Vac
FREQUENCY	45-450Hz
RATING	35 VA max

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APPLICATIONS: Used for measurement of functions like frequency, period , time of interval, phase and ratio.

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