Green is life tmg

ABN 43 064 478 842

231 osborne avenue clayton south, vic 3169
PO box 1548, clayton south, vic 3169
t 03 9265 7400 f 03 9558 0875
freecall 1800 680 680
www.tmgtestequipment.com.au

Test & Measurement

- sales
- rentals
- calibration
- repair
- disposal

Complimentary Reference Material

This PDF has been made available as a complimentary service for you to assist in evaluating this model for your testing requirements.

TMG offers a wide range of test equipment solutions, from renting short to long term, buying refurbished and purchasing new. Financing options, such as Financial Rental, and Leasing are also available on application.

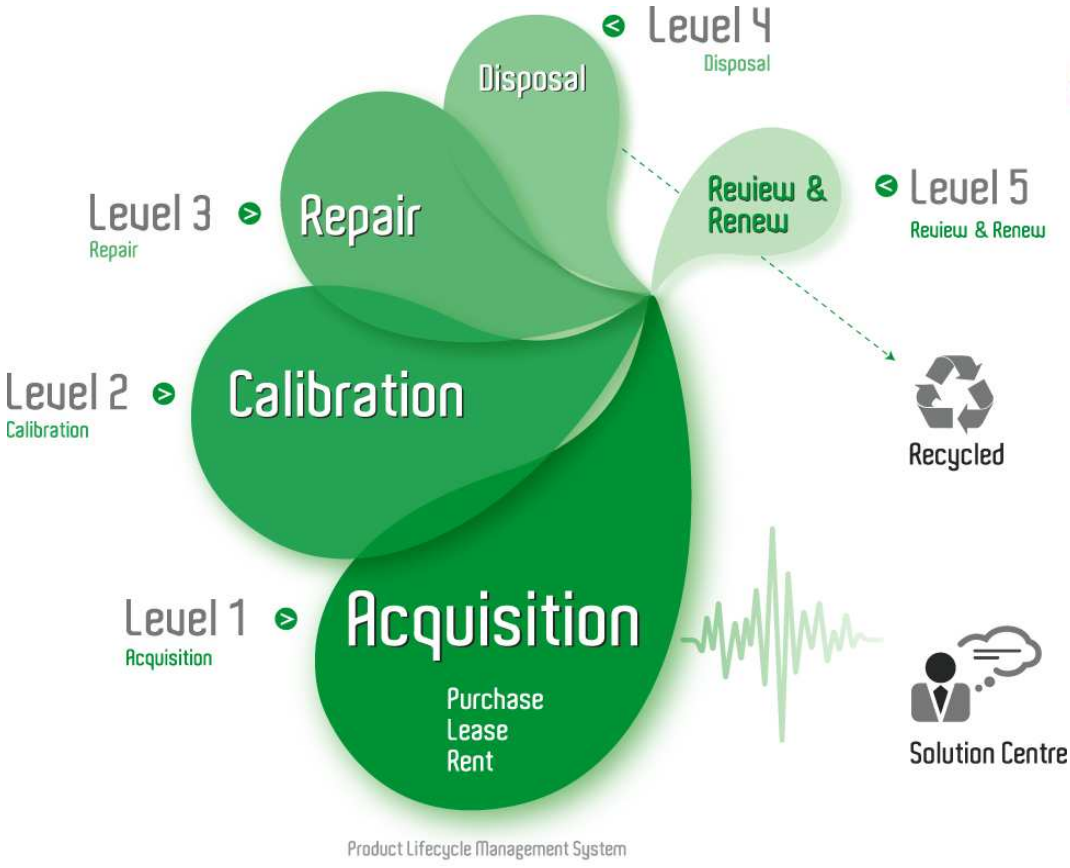
TMG will assist if you are unsure whether this model will suit your requirements.

Call TMG if you need to organise repair and/or calibrate your unit.

If you click on the "Click-to-Call" logo below, you can all us for FREE!

TMG Corporate Website **TMG Products Website**

Click-to-Call
TMG Now



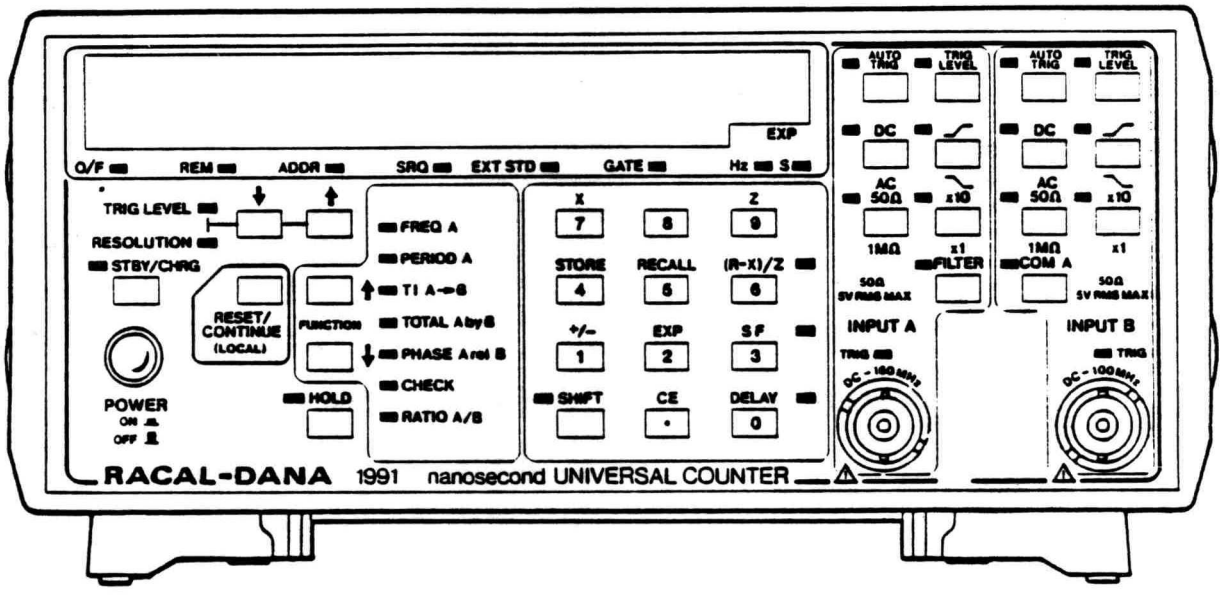


Figure 1.1 - Model 1991 Universal Timer/Counter

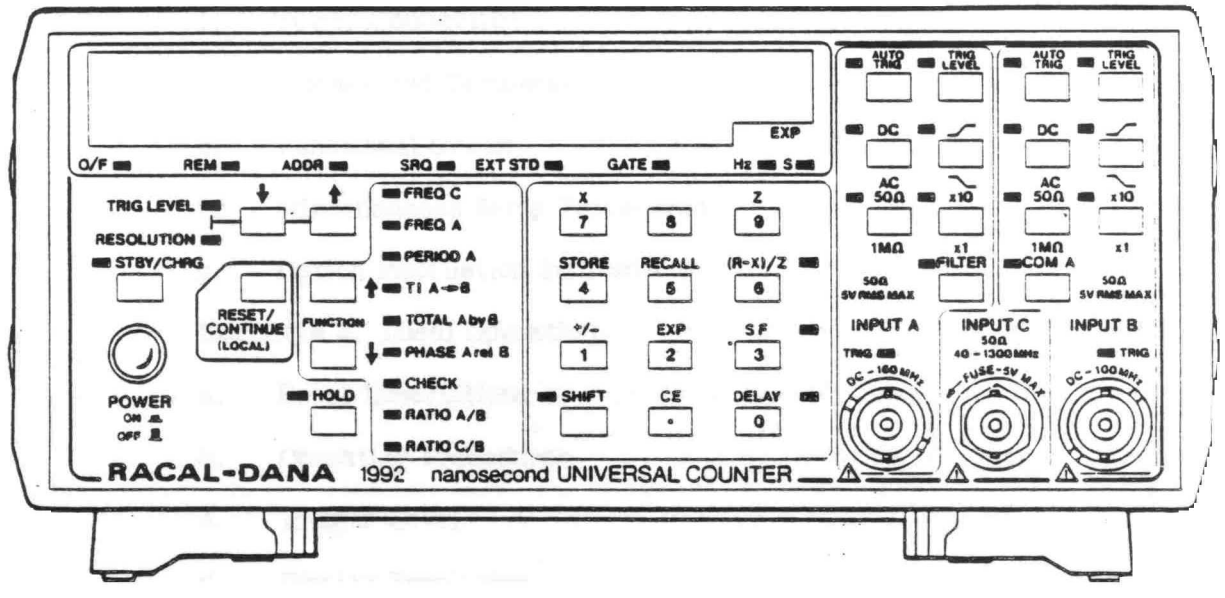


Figure 1.2 - Model 1992 Universal Timer/Counter

Table 1.1 - 1991/1992 Specifications

INPUT CHARACTERISTICS (MODEL 1991)	
Inputs A and B	
Frequency Range:	
Input A:	DC to 160 MHz DC-coupled 10 Hz to 160 MHz AC-coupled
Input B:	DC to 100 MHz DC-coupled 10 Hz to 100 MHz AC-coupled
Sensitivity:	
Sine Wave:	25 mV rms DC to 100 MHz 50 mV rms to 160 MHz
Pulse:	75 mV p-p, 5 ns min. width
Dynamic Range: **(x1 attenuation)**	75 mV to 5V p-p to 50 MHz 75 mV to 2.5V p-p to 100 MHz 150 mV to 2.5V p-p to 160 MHz
Signal Operating Range:	
x1 attenuation:	± 5.1V
x10 attenuation:	± 51V
Input Impedance (nominal):	
(x1 and x10 attenuation)	
Separate Mode:	50 ohms or 1 Megohm //≤45 pF
Common Mode:	50 ohms or 1 Megohm //≤55 pF
Maximum Input (without damage):	
50 ohms:	5V (DC + AC rms)
1 Megohm: **(x1 attenuation)**	260V (DC + AC rms), DC to 2 kHz Decreasing to 5V rms, at 100 kHz and above
1 Megohm: **(x10 attenuation)**	260V (DC + AC rms), DC to 20 kHz Decreasing to 50V rms at 100 kHz and above
Coupling:	AC or DC
Low Pass Filter:	50 kHz nominal (Input A selectable)
Trigger Slope:	+ve or -ve
Attenuator:	x1 or x10. In Auto Trigger mode, attenuator selected automatically if necessary

Table 1.1 - 1991/1992 Specifications (Cont'd)

Trigger Level Range:	
Manual:	
x1 attenuation:	± 5.1V in 20 mV steps
x10 attenuation:	± 51V in 200 mV steps
Automatic:	± 51V
Trigger Level Accuracy:	
Manual and Automatic:	
x1 attenuation:	± 30 mV ±1% of trigger level reading
x10 attenuation:	± 300 mV ±1% of trigger level reading
Auto Trigger:	
Frequency Range:	DC and 50 Hz to 100 MHz (Typically 160 MHz)
Min. Amplitude (AC):	Typically 150 mV p-p*
x10 attenuator	Automatically selected if input signal exceeds ± 5.1V or 5.1V p-p*
Trigger Level Outputs: (Rear Panel)	
Range:	± 5.1V
Accuracy (Relative to true trigger level)	
x1 attenuation:	± 1% V output ±10 mV
x10 attenuation:	± 1% V output ± 100 mV
Impedance:	10 kohm nominal

MODEL 1992: Specification for input characteristics is identical to that for the 1991 except for the following addition:

Input C

Frequency Range:	40 MHz to 1.3 GHz
Sensitivity:	
Sine Wave:	<15 mV rms, 40 MHz to 1 GHz <75 mV rms to 1.3 GHz
Dynamic Range:	15 mV rms to 5V rms to 1 GHz 75 mV rms to 5V rms to 1.3 GHz
Input Impedance:	50 ohms nominal AC-coupled
VSWR:	≤2:1 at 1 GHz
Maximum Input:	7V rms (fuse-protected) Fuse located in BNC connector
Damage Level:	2.5W

*See Definitions