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Test & Measurement

- sales
- rentals
- calibration
- repair
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Complimentary Reference Material

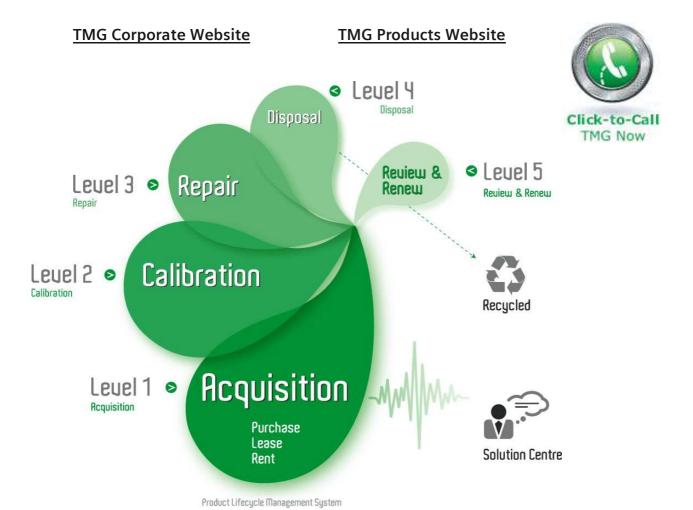
This PDF has been made available as a complimentary service for you to assist in evaluating this model for your testing requirements.

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!



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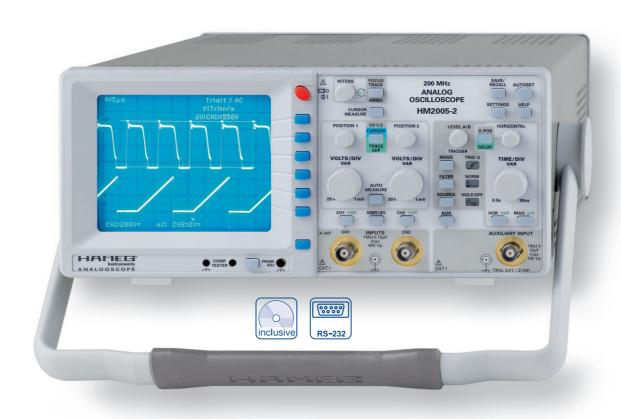




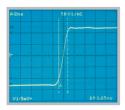




200 MHz Analog Oscilloscope HM2005-2



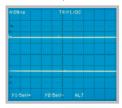
Even fast rising edges do not cause overshoot



Full screen display of 200 MHz signal



Low noise amplifiers



2 Channels with deflection coefficients of 1 mV/cm - 5 V/cm

2 Time Bases: 0.5 s/cm - 2 ns/cm and 20 ms - 2 ns/cm

Low Noise Measuring Amplifiers with high pulse fidelity

Videotrigger: Odd and even frames, Line Selection (525/60 and 625/50 standard)

250 MHz 6-Digit Frequency Counter, Cursor and Automatic Measurement

14 kV high writing speed CRT, Readout, Autoset, Delay Line, no Fan

Save/Recall Memories for Instrument Settings

Help Function, Multilingual Menu

RS-232 Interface (for parameter queries and control only)

200 MHz Analog Oscilloscope HM2005-2

Vertical Deflection Channels: CH 1 or CH 2 separate, DUAL (CH 1 and Operating Modes: CH 2 alternate or chopped), Addition X in XY-Mode: CH 1, CH 2 Invert: 2 x 0 - 200 MHz Bandwidth (-3 dB): Rise time: < 1,75 ns Bandwidth Limiter (switchable): approx. 20 MHz (1 mV/cm - 5 V/cm) Deflection Coefficients (CH 1, 2): 12 calibrated steps ± 3 % (0 - 100 MHz (-3 dB)) 1 mV - 2 mV/cm 5 mV - 5 V/cm: ± 3 % (1-2-5 sequence) variable (uncalibrated): > 1 mV/cm to 5 V/cm, continuous Inputs CH 1, 2: 1 MΩ II 13 pF Impedance: DC, AC, 50Ω , GND (ground) Coupling: Max. Input Voltage: 250 V (DC + peak AC), $50 \Omega < 5 V_{rms}$ Y Delay Line (analog): Measuring Circuits: Measuring Category I Auxiliary input: Function (selectable): Ext. Trigger, Z (unblank) Coupling (Ext. Trig./Z): all / AC, DC Max. input voltage: 100 V (DC + peak AC)

Triggering Analog Automatic (Peak to Peak): Min. signal height: 5 mm 10 Hz - 250 MHz Frequency range: Level control range: from Peak- to Peak+ Normal (without peak): Min. signal height: $5 \, \text{mm}$ Frequency range: 0 - 250 MHz Level control range: -10 cm to +10 cm Slope/Video Operating modes: Slope: positive, negative, both Sources: CH 1, CH 2, alt. CH 1/2 (≥ 8 mm), Line, Ext. Coupling: **AC:** 10 Hz - 250 MHz DC: 0 - 250 MHz HF: 30 kHz - 250 MHz **LF:** 0 - 5 kHz Noise Rej. switchable pos./neg. Sync. Impulse Video: 525 Line / 60 Hz Systems Standards: 625 Line / 50 Hz Systems Field: even/odd/both all/line number selectable Line: CH 1, CH 2, Ext. Source: Indicator for trigger action: LED External Trigger via: AUXILIARY INPUT (0.3 V_{pp} , 0 – 200 MHz) AC, DC Coupling: Max. input voltage: 100 V (DC + peak AC) 2nd Trigger Min. signal height: $0 - 250 \, MHz$ Frequency range: DC

	Horizontal Deflection				
	Time Base				
	Operating modes:	A, ALT (alternating A/B), B			
	Time base A:	0.5 s/cm - 20 ns/cm (1-2-5 sequence)			
	Time base B:	20 ms/cm - 20 ns/cm (1-2-5 sequence)			
Accuracy A and B:		±3%			
	X Magnification x10:	to 2 ns/cm			
	Accuracy:	±5%			
	Variable time base A/B:	cont. 1:2.5			
	Hold Off time:	var. 1:10 (LED-Indication)			
XY Mode					
	Bandwidth X-Amplifier:	0 – 3 MHz (-3 dB)			
	X Y phase shift:	< 3° < 220 kHz			

-10 cm to +10 cm

Coupling: Level control range:

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Operation/Measuring/Interfaces Operation: Menu (multilingual), Autoset, Help functions (multilingual) Save/Recall internal: 9 Instrument parameter settings Signal sources: CH 1, CH 2 Frequency counter: 6 digit resolution: > 1 MHz - 250 MHz 5 digit resolution: 0.5 Hz - 1 MHz Accuracy: 50 ppm Frequency, Period, V_{dc} , V_{pp} , V_{p+} , V_{p-} Δt , $1/\Delta t$ (f), tr, ΔV , V to GND, ratio X, ratio YAuto Measurements: Cursor Measurements: Resolution Readout/Cursor: 1000 x 2000 Pts Interfaces (plug-in): RS-232 (H0710)

Display
CRT: D14-375GH
Display area (with graticule): 8 cm x 10 cm
Acceleration voltage: approx. 14 kV

General Information
Component tester

Component tester approx. 7 V_{rms} (open circuit), approx. 50 Hz Test voltage: max. 7 mA_{rms} (short circuit) Ground (safety earth) Test current: Reference Potential: 1 kHz/1 MHz square wave signal 0.2 V_{pp} Probe ADJ Output: (tr < 4 ns) Trace rotation: electronic Line voltage: $105 - 253 \, \text{V}, \, 50/60 \, \text{Hz} \pm 10 \, \%, \, \text{CAT II}$ 42 Watt at 230 V, 50 Hz Power consumption: Safety class I (EN61010-1) Protective system: 5.6 kg Weight: 285 x 125 x 380 mm Cabinet (W x H x D): Ambient temperature: 0°C ...+40°C

Accessories supplied: Line Cord, Operators Manual and Software for Windows on CD-ROM, 2 Probes 10:1 (HZ200)

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