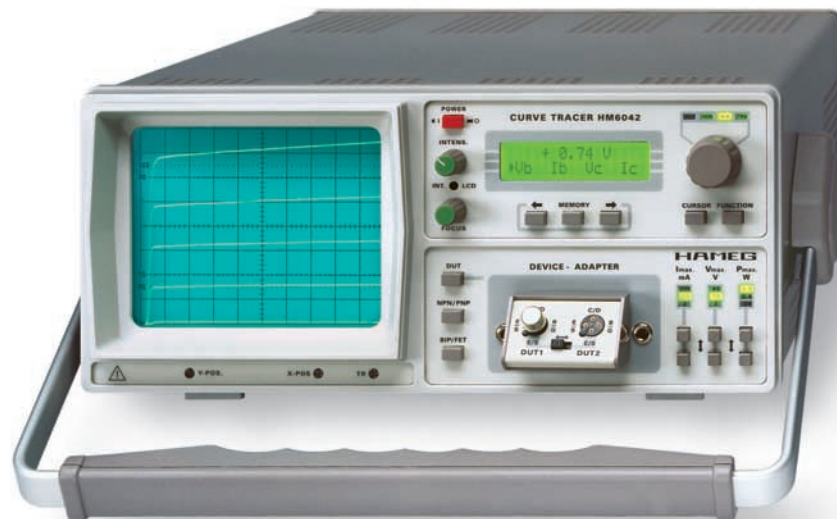


Curve Tracer HM6042



For testing and selection of:
transistors, MOS-FETs, diodes, Z-diodes, LEDs, thyristors

On-screen display of 5 dynamically generated curves

The LCD display shows the active parameters and dynamic numeric data corresponding to the cursor position on the screen

Automatic calculation of h and y parameters

Easy comparison of components based on reference values stored in memory

Intuitive, logical key-based operation

HZ820: Switching feature (DUT 1 and DUT 2) for rapid transistor selection (U_{test} max. 40 V)

HZ820 (included)



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Valid at 23 °C after a 30 minute warm-up period

Measurement ranges

3 voltage ranges:	collector/drain voltages ≤ 2V, 10V, 40V ±5%
3 current ranges:	collector/drain currents ≤ 2 mA, 20 mA, 200 mA ±5%
3 power ranges:	output power ≤ 0.04 W, 0.4 W, 4W ±10%
Basis/gate voltages and currents:	
I_B	1 µA to 10 mA
V_B	to 2V ±5%
V_G	to 10V ±5%

Measurement accuracy

Measurement accuracy of static values:	
$V_{C/D}$	± 2% of rdg. + 3 digits
$I_{C/D}$	± 2% of rdg. + 3 digits
I_B	± 2% of rdg. + 3 digits
V_B	± 2% of rdg. + 3 digits
V_G	± 3% of rdg. + 3 digits
β	to 1000: ± 5% of rdg. + 3 digits to 100000: ± [(6 + 0,001 x β)]% of rdg. + 3 digits]
Measurement accuracy of dynamic values:	
h11	≤ 1000 Ω ± (12% of rdg. + 3 digits) ≥ 1000 Ω ± [(12 + 0.001 Mw.)% of rdg. + 3 digits]
h21	≤ 1000 ± (12% of rdg. + 3 digits) ≥ 1000 ± [(12 + 0.001 Mw.)% of rdg. + 3 digits]
y21	≤ 1 S ± (12% of rdg. + 3 digits)
h/y22	≤ 1 S ± (12% of rdg. + 3 digits)

Other Functions

Storing of a reference measurement value, e.g. for support in component selection

Cursor measurement functions:

single mode:	One cursor marks the position on the measurement reading display.
tracking mode:	Two cursors mark the positions at which the readings for the dynamic values were taken.

Analysis of curves for: diodes, zener diodes
NPN/PNP transistors
FET/MOS-FET (N/P channel)
thyristors (to a limited extent only)

Display: LCD
Display of values in the curve set
Screen display of 5 curves, max.

Miscellaneous

CRT:	D14-364GY/123 oder ER151-GH/-, rectangular (8 x 10 cm), internal graticule
Acceleration voltage:	approx. 2 kV
Trace rotation:	adjustable on front panel
Power supply:	100-240 V ~ ±10%, 50/60 Hz
Power consumption:	approx. 36 Watt at 50 Hz
Operating temperature:	0° C to +40° C
Safety class:	Safety Class I (EN61010-1)
Color:	techno-brown
Dimensions (W x H x D):	285 x 125 x 380 mm Lockable tilt handle
Weight:	approx. 5,6 kg

Values indicated without tolerances are intended as aids to orientation and reflect the characteristics of an average device.
Reference temperature 23° C ± 2° C.
Subject to change without notice.

Accessories supplied: Operator's Manual, power cable, plug-in test adapter

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