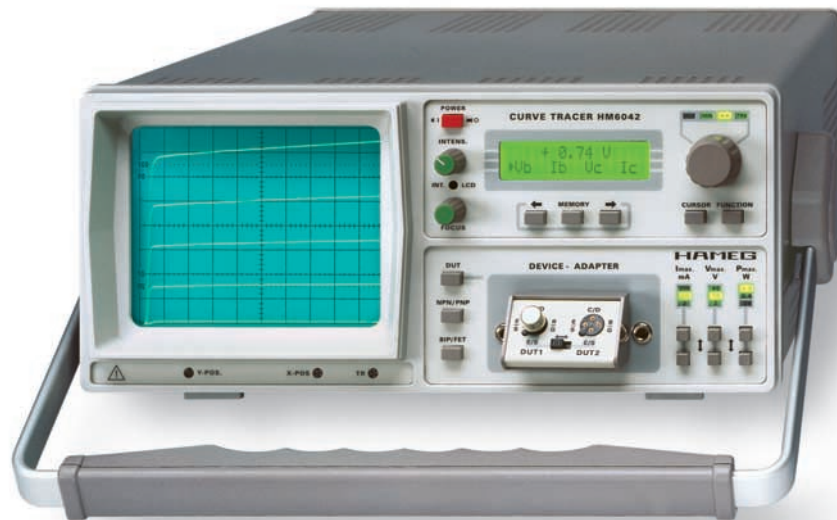


## Curve Tracer HM6042



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 ( $U_{\text{test}}$  max. 40 V)

HZ820 (included)



## Curve Tracer HM6042

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

### Measurement ranges

<b>3 voltage ranges:</b>	collector/drain voltages $\leq 2\text{ V}, 10\text{ V}, 40\text{ V} \pm 5\%$
<b>3 current ranges:</b>	collector/drain currents $\leq 2\text{ mA}, 20\text{ mA}, 200\text{ mA} \pm 5\%$
<b>3 power ranges:</b>	output power $\leq 0.04\text{ W}, 0.4\text{ W}, 4\text{ W} \pm 10\%$
<b>Basis/gate voltages and currents:</b>	
$I_B$	1 $\mu\text{A}$ to 10 mA
$V_B$	to 2V $\pm 5\%$
$V_G$	to 10V $\pm 5\%$

### Measurement accuracy

<b>Measurement accuracy of static values:</b>	
$V_{C/D}$	$\pm 2\%$ of rdg. + 3 digits
$I_{C/D}$	$\pm 2\%$ of rdg. + 3 digits
$I_B$	$\pm 2\%$ of rdg. + 3 digits
$V_B$	$\pm 2\%$ of rdg. + 3 digits
$V_G$	$\pm 3\%$ of rdg. + 3 digits
$\beta$	to 1000: $\pm 5\%$ of rdg. + 3 digits to 100000: $\pm [(6 + 0,001 \times \beta)\%$ of rdg. + 3 digits]
<b>Measurement accuracy of dynamic values:</b>	
<b>h11</b>	$\leq 1000\ \Omega \pm (12\%$ of rdg. + 3 digits) $\geq 1000\ \Omega \pm [(12 + 0.001\text{ Mw.})\%$ of rdg. + 3 digits]
<b>h21</b>	$\leq 1000 \pm (12\%$ of rdg. + 3 digits) $\geq 1000 \pm [(12 + 0.001\text{ Mw.})\%$ of rdg. + 3 digits]
<b>y21</b>	$\leq 1\text{ S} \pm (12\%$ of rdg. + 3 digits)
<b>h/y22</b>	$\leq 1\text{ S} \pm (12\%$ of rdg. + 3 digits)

### Other Functions

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

### Cursor measurement functions:

<b>single mode:</b>	One cursor marks the position on the measurement reading display.
<b>tracking mode:</b>	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

<b>CRT:</b>	D14-364GY/123 oder ER151-GH/-, rectangular (8 x 10 cm), internal graticule
<b>Acceleration voltage:</b>	approx. 2 kV
<b>Trace rotation:</b>	adjustable on front panel
<b>Power supply:</b>	100-240 V - $\pm 10\%$ , 50/60 Hz
<b>Power consumption:</b>	approx. 36 Watt at 50 Hz
<b>Operating temperature:</b>	0° C to +40° C
<b>Safety class:</b>	Safety Class I (EN61010-1)
<b>Color:</b>	techno-brown
<b>Dimensions (W x H x D):</b>	285 x 125 x 380 mm Lockable tilt handle
<b>Weight:</b>	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  $\pm 2^\circ$  C.  
Subject to change without notice.

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

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