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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.

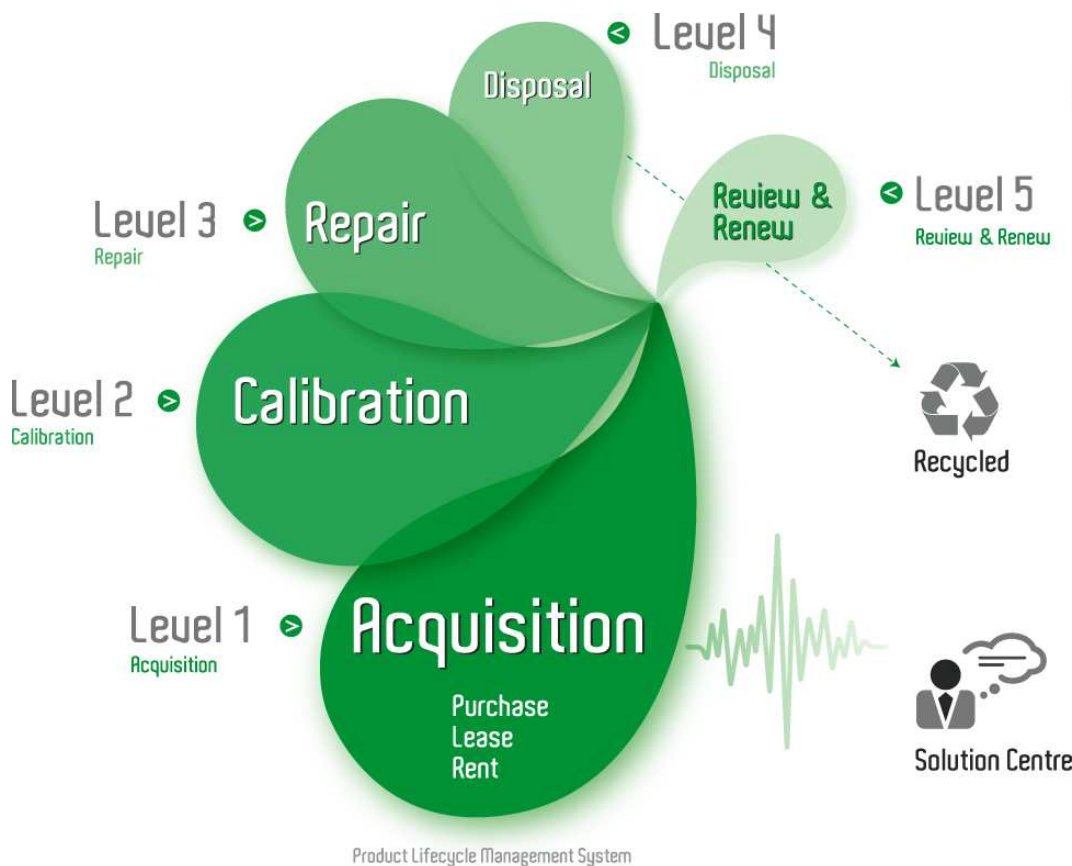
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Product Lifecycle Management System

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10 MHz Function Generator HM8030-6

HM8030-6



Option H0801, page 40



Mainframe HM8001-2
required for operation



Frequency range 50 mHz to 10 MHz, output voltage up to 20 V_{pp}
(open circuit)

Waveforms: sine wave, triangle, square wave, pulse, DC

Distortion factor < 0.5% up to 1 MHz, rise and fall time typ. 15 ns

Internal and external sweep, FM (with H0801))

Surge- and short-circuit-proof output

10 MHz Function Generator HM8030-6

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

Operating modes

Sine, square, triangle, pulse; free running, internal sweep or external frequency modulation, with or without DC offset

Frequency ranges

0.05 Hz to 10 MHz in 8 ranges, variable: x 0.09 to x 1.1 (12:1)

Frequency drift: < 0.5 %/hr or 0.8%/24 hrs. at constant ambient temperature

Waveform characteristics

Sine wave distortion

0.05 Hz to 1 MHz: max. 0.5 %
1 MHz to 10 MHz: max. 5 %

Square wave rise time: typ. 15 ns

Overshoot: < 5 % (for termination into 50 Ω)

Triangle non-linearity: < 1 % (to 100 kHz)

Displays

Frequency: 5-digit, 7-segment LED, each 8 x 5 mm

Accuracy:

up to 5 Hz: ± (1 % + 3 digits)
5 Hz to 10 MHz: ± (5 x 10⁻⁵ + 1 digit)

LED indicators for mHz, Hz, kHz and sec

Outputs

Signal output: short-circuit proof, protected against ext. voltage up to ± 45 V_{DC} max. (30 sec.)

Impedance: 50 Ω

Output voltage: 10 V_{pp} into 50 Ω load; 20 V_{pp} (open circuit)

Attenuation: max. 60 dB

2 attenuators: each 20 dB ± 0.2 dB

Variable: 0 to 20 dB

Amplitude error: (sine wave/triangle)

0.05 Hz to 0.5 MHz: max. 0.2 dB
5 Hz to 10 MHz: max. 0.5 dB

DC offset: variable (on/off, except pulse function)

into 50 Ω load: max. ±2.5 V
in open circuit: max. ±5 V

Trigger output: square wave synchronous to

FM input

(VCF, BNC connector on rear panel of HM8001-2 and option HO801)

Frequency deviation: approx. 1:100

Input impedance: 6 kΩ || 25 pF

Input voltage: max. ± 30 V

Internal sweep

Sweep speed: 20 ms to 15 s

Sweep range: approx. 1:100

Miscellaneous

Power supply (from mainframe): + 5 V/200 mA
+ 16 V/300 mA
- 16 V/250 mA
(Σ = 9.8 W).

Operating temperature: +10 °C to +40 °C

Max. relative humidity: 80 % (without condensation)

Dimensions (W x H x D) (without 22-pole flat plug):

135 x 68 x 228 mm

Weight: approx. 0.80 kg

Accessories supplied: Operator's Manual

Optional accessories:

HZ33/HZ34 Test Cable 50 Ω (BNC-BNC)

HZ22 50 Ω feed-through terminal

HZ10S/R Silicone test lead

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