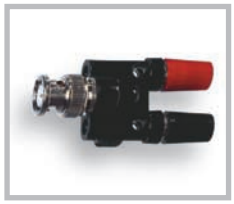
10 MHz Function Generator
HM8030-6

Option HO801

HZ33, HZ34
Test cable BNC/BNC

HZ20 Connector
BNC to 4mm socket



- Frequency range 50 mHz to 10 MHz
- High signal purity and amplitude stability
- Distortion factor ‹ 0.5 % up to 1 MHz
- Output voltage 20 V_{pp} (10 V_{pp} into 50 Ω)
- Surge- and short-circuit-proof output
- Rise and fall time typ. 15 ns
- Internal and external sweep
- Pulse width adjustment
- Highly accurate digital frequency display
- Mainframe HM8001-2 or HM8003 required for operation

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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
0.5 MHz 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 signal output, approx. +5 V/TTL

FM input

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

Frequency deviation:	approx. 1 : 100
Input impedance:	6 kΩ II 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 (∑= 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 BNC Test Cable, HZ22 50 Ω feed-through terminal, HZ10 Silicone test leads

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