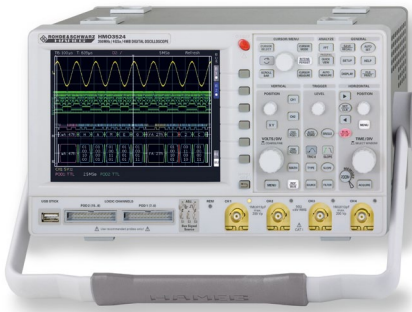


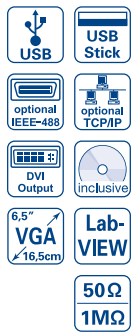
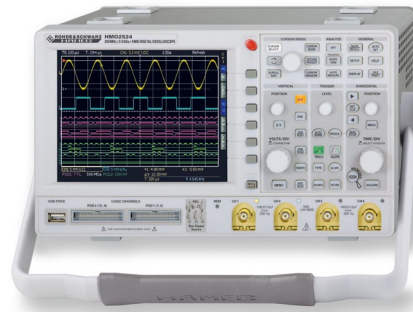
GREAT VALUE IN TEST & MEASUREMENT

350 MHz 2 [4] CHANNEL DIGITAL OSCILLOSCOPE HMO3522 [HMO3524]



- ✓ 4GSa/s Real Time, 50GSa/s Random Sampling, Low Noise Flash A/D Converter (Reference Class)
- ✓ 4MPts Memory, Memory *Zoom* up to 100,000:1
- ✓ MSO (Mixed Signal Opt. H03508 [H03516]) with 8 [16] Logic Channels
- ✓ Serial Bus Trigger and Hardware accelerated Decode incl. List View, I²C, SPI, UART/RS-232, CAN, LIN (optional*)
- ✓ Automatic Search for User defined Events
- ✓ Pass/Fail Test based on Masks ✓ Lowest Noise Fan
- ✓ Vertical Sensitivity 1mV/div., Offset Control ±0,2...±20V
- ✓ 12 div. x-Axis Display Range, 20 div. y-Axis Display Range (VirtualScreen)
- ✓ Trigger Modes: Slope, Video, Pulswidth, Logic, Delayed, Event
- ✓ 6 Digit Counter, Automeasurement: max. 6 Parameters incl. Statistic, Formula Editor, Ratiocursor, FFT: 64 kPts

250 MHz 4 CHANNEL DIGITAL OSCILLOSCOPE HMO2524

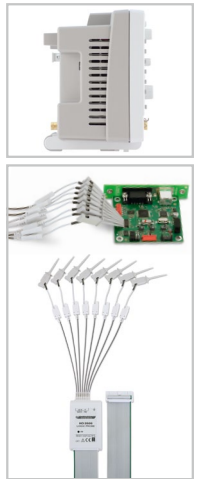
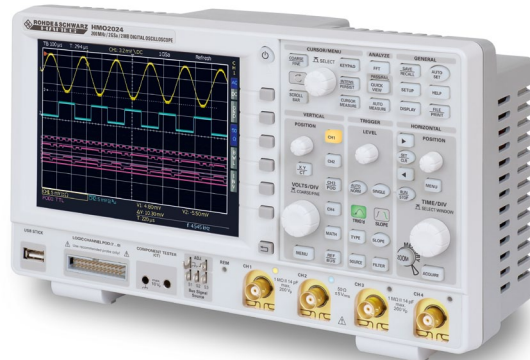


- ✓ 2.5GSa/s Real Time, 25GSa/s Random Sampling, Low Noise Flash A/D Converter (Reference Class)
- ✓ 4MPts Memory, Memory *Zoom* up to 100,000:1
- ✓ MSO (Mixed Signal Opt. H03508 [H03516]) with 8 [16] Logic Channels
- ✓ Serial Bus Trigger and Hardware accelerated Decode incl. List View, I²C, SPI, UART/RS-232, CAN, LIN (optional*)
- ✓ Automatic Search for User defined Events
- ✓ Pass/Fail Test based on Masks ✓ Lowest Noise Fan
- ✓ Vertical Sensitivity 1mV/div., Offset Control ±0,2...±20V
- ✓ 12 div. x-Axis Display Range, 20 div. y-Axis Display Range (VirtualScreen)
- ✓ Trigger Modes: Slope, Video, Pulswidth, Logic, Delayed, Event
- ✓ 6 Digit Counter, Automeasurement: max. 6 Parameters incl. Statistic, Formula Editor, Ratiocursor, FFT: 64 kPts

150 MHz/200 MHz 2 CHANNEL DSO HMO1522/HMO2022

- ✓ 2GSa/s Real Time, Low Noise Flash A/D Converter (Reference Class)
- ✓ 2MPts Memory, Memory *Zoom* up to 50,000:1
- ✓ MSO (Mixed Signal Opt. H03508 with 8 Logic Channels
- ✓ Serial Bus Trigger and Hardware accelerated Decode incl. List View, I²C, SPI, UART/RS-232, CAN, LIN (optional*)
- ✓ Automatic Search for User defined Events
- ✓ Pass/Fail Test based on Masks
- ✓ Vertical Sensitivity 1mV/div., Offset Control ±0,2...±20V
- ✓ 12 div. x-Axis Display Range, 20 div. y-Axis Display Range (VirtualScreen)
- ✓ Trigger Modes: Slope, Video, Pulswidth, Logic, Delayed, Event
- ✓ Component Tester, 6 Digit Counter, Automeasurement: max. 6 Parameters incl. Statistic, Formula Editor, Ratiocursor, FFT: 64 kPts
- ✓ Crisp 16.5cm (6.5") TFT VGA Display, DVI Output
- ✓ Lowest Noise Fan
- ✓ 3 x USB for Mass Storage, Printer and Remote Control optional IEEE-488 (GPIB) or Ethernet/USB

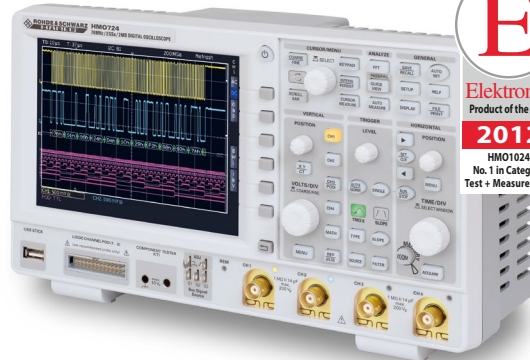
150 MHz/200 MHz 4 CHANNEL DSO HMO1524/HMO2024



70 MHz/100 MHz 2 CHANNEL DSO HMO722/HMO1022

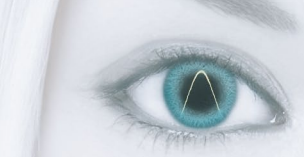
- ✓ 2GSa/s Real Time, Low Noise Flash A/D Converter (Reference Class)
- ✓ 2MPts Memory, Memory *Zoom* up to 50,000:1
- ✓ MSO (Mixed Signal Opt. H03508) with 8 Logic Channels
- ✓ Serial Bus Trigger and Hardware accelerated Decode incl. List View, I²C, SPI, UART/RS-232, CAN, LIN (optional*)
- ✓ Automatic Search for User defined Events
- ✓ Pass/Fail Test based on Masks
- ✓ Vertical Sensitivity 1mV/div.
- ✓ 12 div. x-Axis Display Range, 20 div. y-Axis Display Range (VirtualScreen)
- ✓ Trigger Modes: Slope, Video, Pulswidth, Logic, Delayed, Event
- ✓ Component Tester, 6 Digit Counter, Automeasurement: max. 6 Parameters incl. Statistic, Formula Editor, Ratiocursor, FFT: 64 kPts
- ✓ Crisp 16.5cm (6.5") TFT VGA Display, DVI Output
- ✓ Lowest Noise Fan
- ✓ 3 x USB for Mass Storage, Printer and Remote Control optional IEEE-488 (GPIB) or Ethernet/USB

70 MHz/100 MHz 4 CHANNEL DSO HMO724/HMO1024



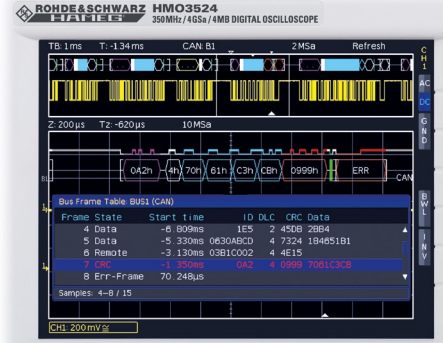
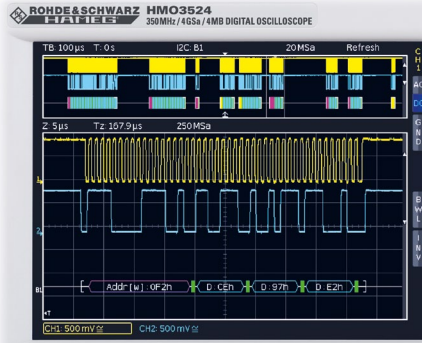
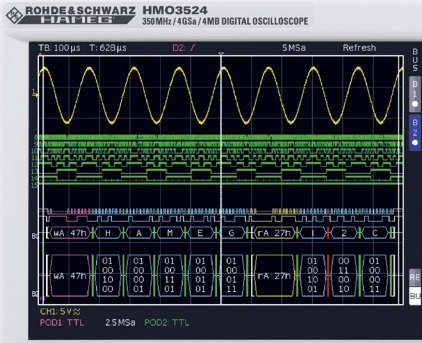
* Serial Bus H0010: I²C/SPI/UART/RS-232 on Logic Channels and Analog Channels
Serial Bus H0011: I²C/SPI/UART/RS-232 on Analog Channels
Serial Bus H0012: CAN/LIN on Logic Channels and Analog Channels

GREAT VALUE IN TEST & MEASUREMENT



H0010/H0011/H0012 SERIAL BUS TRIGGER & DECODE OPTIONS

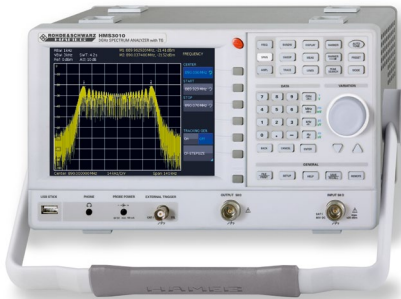
FOR HMO SERIES



- ✓ H0010 I²C, SPI, UART/RS-232 Bus Trigger and Decode via Analog and Logic Channels
- ✓ H0011 I²C, SPI, UART/RS-232 Bus Trigger and Decode via Analog Channels
- ✓ H0012 CAN, LIN Bus Trigger and Decode via Analog and Logic Channels
- ✓ Hardware accelerated Decode in Realtime
- ✓ Color Coded Display of the Content for intuitive Analysis and easy Overview

- ✓ More Details of the decoded Values come visible with increasing Zoom Factor
- ✓ Bus Display with synchronous Display of the Data and maybe Clock Signal
- ✓ Decode into ASCII, Binary, Hexadecimal or Decimal Format
- ✓ List View of all decoded Messages
- ✓ Powerful Trigger to isolate specific Messages
- ✓ Option for all Oscilloscopes of the HMO Series, retrofitable

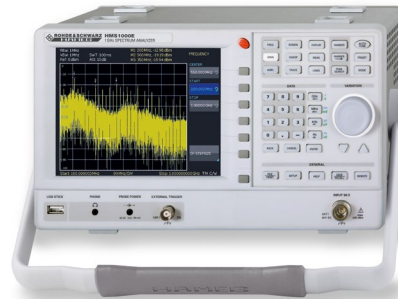
1 GHz [3GHz] SPECTRUM ANALYZER HMS1000 [HMS3000]



- USB
- USB Stick
- optional IEEE-488
- optional TCP/IP
- DVI Output
- inclusive
- 6,5" VGA 16,5cm

- ✓ Frequency Range 100 kHz...1 GHz [3 GHz]
- ✓ Tracking Generator HMS1010 [HMS3010] -20 dBm...0 dBm
- ✓ Amplitude Measurement Range -114...+20 dBm
DANL -135 dBm with Preamp. Option H03011
- ✓ Sweep Time 20 ms...1000 s
- ✓ Resolution Bandwidth (RBW) 100 Hz...1 MHz in 1-3 Steps, 200 kHz (-3 dB); additional 200 Hz, 9 kHz, 120 kHz, 1 MHz (-6 dB)
- ✓ Spectral purity < -100 dBc/Hz (@100 kHz)
- ✓ Video Bandwidth (VBW) 10 Hz...1 MHz in 1-3 Steps
- ✓ Integrated AM and FM Demodulator (Phone + int. Speaker)
- ✓ Detectors: Auto-, Min-, Max-Peak, Sample, RMS, Quasi-peak
- ✓ 8 Marker with Delta Marker, miscellaneous Peak Functions

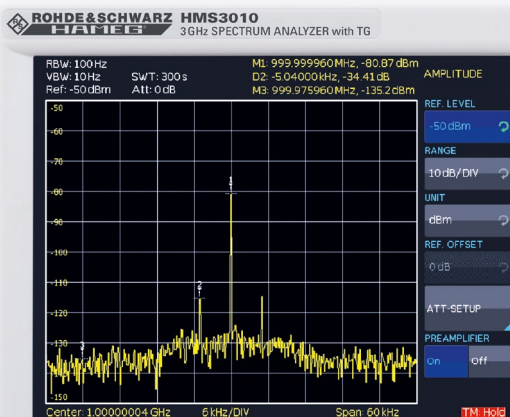
1 GHz SPECTRUM ANALYZER HMS1000E



- USB
- USB Stick
- optional IEEE-488
- optional TCP/IP
- 6,5" VGA 16,5cm
- inclusive

- ✓ Frequency Range 100 kHz...1 GHz
- ✓ Amplitude Measurement Range -104...+20 dBm
- ✓ Sweep Time 20 ms...1000s
- ✓ Resolution Bandwidth 10 kHz...1 MHz in 1-3 Steps, 200 kHz (-3 dB)
- ✓ Spectral Purity < -100 dBc/Hz (@100 kHz)
- ✓ Video Bandwidth 1 kHz...1 MHz in 1-3 Steps
- ✓ Integrated AM and FM Demodulator (Phone and int. Speaker)
- ✓ Detectors: Auto-, Min-, Max-Peak, Sample, RMS
- ✓ 8 Marker with Delta Marker, miscellaneous Peak Functions
- ✓ Crisp 16.5 cm (6.5") TFT VGA Display
- ✓ 3 x USB for Mass-Storage, Printer and Remote Control, optional IEEE-488 (GPIB) or Ethernet/USB Interface

H03011 PREAMPLIFIER FOR HMS SERIES



- ✓ Preamplifier option for HMS1000, HMS1010, HMS3000, HMS3010 (License Key)
- ✓ DANL -135 dBm typ. (100 Hz RBW)

HZ540/HZ550 [HZ530] NEAR FIELD PROBES SET 3GHz [1GHz]



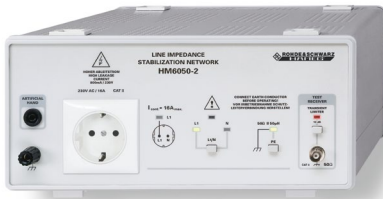
1GHz:
HZ530

The HZ540/550 are the ideal toolkits for the investigation of RF electromagnetic fields. They are indispensable for EMI pre-compliance testing during product development, prior to third party testing. The sets include 3 or 5 hand-held probes with built-in pre-amplifier covering the frequency range from <1MHz to approx. 3000MHz.

The probes of the basic set HZ540 include one magnetic field probe, one electric field probe, and a high impedance probe. In addition to the HZ550 features an optional μ -magnetic field probe and a passive radiation probe. All probe outputs are matched to the 50 Ω inputs of spectrum analyzers or RF-receivers.

The HZ530 Probe Set consists of three active broadband probes for EMI diagnosis. The probes are designed for connection to a HAMEG spectrum analyzer with input impedance of 50 Ω . The probes can be powered by the spectrum analyzer or batteries. The slim format ensures easy access to the test object even in cramped test environments.

LINE IMPEDANCE STABILIZATION NETWORK HM6050-2



- ✓ 115V and 230V versions available
- ✓ Measurement of Line-conducted Interference within the Range from 9 kHz...30 MHz (CISPR 16)
- ✓ Switchable Transient Limiter
- ✓ Artificial Hand Connector

8 KW POWER METER HM8115-2



opt.
HZ815



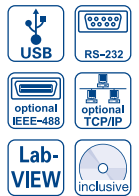
- ✓ Wide Measurement Range 1 mW...8 kW
- ✓ Voltage Range 100 mV...500 V, Current Range 1 mA...16 A
- ✓ Frequency Range DC...1 kHz
- ✓ Simultaneous Voltage, Current and Power Display
- ✓ Display of apparent, effective and reactive Power
- ✓ Power Factor Display
- ✓ Autoranging, simple Operation
- ✓ Monitor Output (BNC) representing the instantaneous Active Power
- ✓ Suitable for Measurements on Frequency Converters
- ✓ Software for Remote Control and Data Acquisition included

PROGR. 3 [4] CHANNEL POWER SUPPLY HMP4030 [HMP4040]



- ✓ 3x 0...32V/0...10A 384 W max.
[4x0...32V/0...10A 384 W max.]
- ✓ 384 W Output Power realized by intelligent Power Management
- ✓ Low Residual Ripple: < 150 μ V_{rms} due to linear Post Regulators
- ✓ High Setting- and Read-Back Resolution of 1 mV up to 0.2 mA
- ✓ Keypad for direct Parameter Entry
- ✓ Galvanically isolated, earth-free and short circuit protected Output Channels
- ✓ Advanced Parallel- and Serial Operation via V/I Tracking
- ✓ EasyArb Function for free definable V/I Characteristics
- ✓ FuseLink: Individual Channel Combination of Electronic Fuses
- ✓ Free adjustable Overvoltage Protection (OVP) for all Outputs
- ✓ All Parameters clearly displayed via LCD/Glowing Buttons
- ✓ Rear Connectors for all Channels including Sense
- ✓ USB/RS-232 Interface, optional Ethernet/USB or IEEE-488 (GPIB)

PROGR. 2 [3] CHANNEL POWER SUPPLY HMP2020 [HMP2030]



- ✓ 1x 0...32V/0...10A 1x0...32V/0...5A 188 W max.
[3x0...32V/0...5A 188 W max.]
- ✓ 188 W Output Power realized by intelligent Power Management
- ✓ Low Residual Ripple: < 150 μ V_{rms} due to linear Post Regulators
- ✓ High Setting- and Read-Back Resolution of 1 mV up to 0.1 mA
- ✓ Galvanically isolated, earth-free and short circuit protected Output Channels
- ✓ Advanced Parallel- and Serial Operation via V/I Tracking
- ✓ EasyArb Function for free definable V/I Characteristics
- ✓ FuseLink: Individual Channel Combination of Electronic Fuses
- ✓ Free adjustable Overvoltage Protection (OVP) for all Outputs
- ✓ All Parameters clearly displayed via LCD/Glowing buttons
- ✓ Rear Connectors for all Channels including Sense
- ✓ USB/RS-232 Interface, optional Ethernet/USB or IEEE-488 (GPIB)

ARBITRARY POWER SUPPLY HM8143



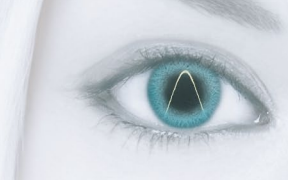
- ✓ 2x0...30V/0...2A 1x5V/0...2A
- ✓ Display Resolution 10 mV/1 mA
- ✓ Parallel (up to 6 A) and Series (up to 65 V) Operation
- ✓ Electronic Load up to 60 W per Channel (max. 2 A)
- ✓ ArBitary Waveform Power Supply (4096 points, 12 Bit):
Creation of customized Waveforms
- ✓ Software for Remote Control and for Creation of ArBitary Waveforms
- ✓ Electronic Fuse and Tracking Mode for 30V Outputs
- ✓ External Modulation of Output Voltages:
Input Voltage 0...10 V, Bandwidth 50 kHz
- ✓ SENSE Lines for Compensation of the Voltage Drop across the Cables
- ✓ Multimeter Mode for all adjustable Outputs
- ✓ Galvanically isolated USB/RS-232 Interface, optional IEEE-488 (GPIB)

TRIPLE POWER SUPPLY HM7042-5



- ✓ 2x0...32V/0...2A 1x0...5.5V/0...5A
- ✓ High-Performance and inexpensive Laboratory Power Supply
- ✓ Floating, Overload and short-circuit proof Outputs
- ✓ Separate Voltage and Current Displays for each Output
4 Digits at Channel 1+3; 3 Digits at Channel 2
- ✓ Display Resolution: 10 mV/1 mA at Channel 1+3; 10 mV/10 mA at Channel 2
- ✓ Protection of sensitive Loads by Current Limit or Electronic Fuse
- ✓ Pushbutton for Activating/Deactivating all Outputs
- ✓ Low Residual Ripple, high Output Power, very good Regulation
- ✓ Parallel (up to 9 A) and Series (up to 69.5 V) Operation
- ✓ Temperature-controlled fan

GREAT VALUE IN TEST & MEASUREMENT



25 [50MHZ] ARBITRARY FUNCTION GENERATOR HMF2525 [HMF2550]

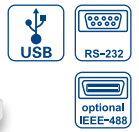


- ✓ Frequency Range 10 μ Hz...25 MHz [50 MHz]
- ✓ Output Voltage 5 mV_{pp}...10V_{pp} (into 50 Ω) DC Offset \pm 5 mV...5V
- ✓ Arbitrary Waveform Generator: 250 MSa/s, 14 Bit, 256 kPts
- ✓ Sine, Square, Pulse, Triangle, Ramp, Arbitrary Waveforms incl. Standard Curves (white Noise, Cardiac etc.)
- ✓ Total Harmonic Distortion 0.04 % (f < 100 kHz)
- ✓ Burst, Sweep, Gating, external Trigger
- ✓ Rise time < 8 ns, in Pulse Mode 8...500 ns Variable-Edge-Time
- ✓ Pulse Mode: Frequency Range 100 μ Hz...12.5 MHz [25 MHz], Pulse Width 15 ns...999 s, Resolution 5 ns
- ✓ Modulation Modes AM, FM, PM, PWM, FSK (int. and ext.)
- ✓ 10 MHz Timebase: \pm 1 ppm TCXO, rear I/O BNC Connector
- ✓ Front USB Connector: Save and Recall of Waveforms and Settings
- ✓ 8.9 cm [3.5"] TFT: crisp Representation of the Waveform and all Parameters
- ✓ USB/RS-232 Dual-Interface, optional Ethernet/USB or IEEE-488 (GPIB)

200 KHZ LCR - BRIDGE HM8118



incl.
HZ188



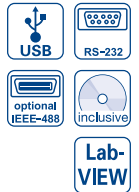
- ✓ Basic Accuracy 0.05 %
- ✓ Measurement Functions L, C, R, |Z|, X, |Y|, G, B, D, Q, θ , Δ , M, N
- ✓ Test Frequencies 20 Hz...200 kHz
- ✓ Up to 12 Measurements per Second
- ✓ Parallel and Series Mode
- ✓ Binning Interface HO118 (optional) for automatic Sorting of Components
- ✓ Internal programmable Voltage and Current Bias
- ✓ Transformer Parameter Measurement
- ✓ External Capacitor Bias up to 40V
- ✓ Kelvin Cable and 4-Wire SMD Test Adapter included in Delivery
- ✓ Galvanically isolated USB/RS-232 Interface, optional IEEE-488 (GPIB)

6 1/2 - DIGIT PRECISION MULTIMETER HM8112-3 [HM8112-3S]



- ✓ 6 1/2 - Digit Display (1,200,000 Digits)
- ✓ Resolution: 100 nV, 100 pA, 100 μ Ω , 0.01 $^{\circ}$ C/F
- ✓ DC Basic Accuracy 0.003 %
- ✓ 2-Wire /4-Wire Measurements
- ✓ Measurement Intervals adjustable from 0.1...60 s
- ✓ Up to 100 Measurements transmitted to PC per Second
- ✓ True RMS Measurement, AC and DC + AC
- ✓ Mathematic Functions: Limit Testing, Minimum/Maximum, Average and Offset
- ✓ Temperature Measurements with Platinum (PT100/PT1000) and Ni (K and J types) Sensors
- ✓ Internal Data Logger for up to 32,000 Measurement Results
- ✓ Offset Correction
- ✓ Galvanically isolated USB/RS-232 Interface, optional IEEE-488 (GPIB)
- ✓ [HM8112-3S]: HM8112-3 incl. Scanner Card (8+1 Channels each 2- and 4-Wire)

12.5 MHZ ARBITRARY FUNCTION GENERATOR HM8150



- ✓ Frequency Range 10 mHz...12.5 MHz
- ✓ Output Voltage 10 mV_{pp}...10V_{pp} (into 50 Ω)
- ✓ Waveforms: Sine Wave, Square Wave, Triangle, Pulse, Sawtooth, Arbitrary
- ✓ Rise and Fall Time < 10 ns
- ✓ Pulswidth Adjustment: 100 ns...80 s
- ✓ Arbitrary Waveform Generator 40 MSa/s
- ✓ Burst, Gating, External Triggering, Sweep
- ✓ Software for Remote Control and for Creation of Arbitrary Waveforms
- ✓ External Amplitude Modulation (Bandwidth 20 kHz)
- ✓ Intuitive Operation with one Touch of a Button - quick Change of Signals
- ✓ Galvanically isolated USB/RS-232 Interface, optional IEEE-488 (GPIB)

3 GHZ PROGRAMMABLE COUNTER HM8123



- ✓ Measurement Range 0 Hz...3 GHz
- ✓ 2 Measurement Inputs DC...200 MHz, 1 Measurement Input 100 MHz...3 GHz
- ✓ Input Impedance A/B: 1 M Ω /50 Ω (switchable), Sensitivity 25 mV_{rms}
- ✓ Input Impedance C: 50 Ω , Sensitivity 30 mV_{rms}
- ✓ 400 MHz Time Base with 0.5 ppm Stability
- ✓ 10-Digit Resolution at 10 s Gate Time
- ✓ 9 Measurement Functions, external Gate and Arming
- ✓ Input for external Time Base (10 MHz)
- ✓ Standard: TCXO (Temperature Stability: \pm 0.5 x 10⁻⁶)
Optional: OCXO (Temperature Stability: \pm 1 x 10⁻⁸)
- ✓ Intuitive One-Pushbutton Operation each Function directly addressable
- ✓ Galvanically isolated USB/RS-232 Interface, optional IEEE-488 (GPIB)

1.2 GHZ [3 GHZ] RF-SYNTHESIZER HM8134-3 [HM8135]



- ✓ Outstanding Frequency Range 1 Hz...1.2 GHz [3 GHz]
- ✓ Output Power -127...+13 dBm [-135...+13 dBm]
- ✓ Frequency Resolution 1 Hz (Accuracy 0.5 ppm)
- ✓ Input for external Time Base (10 MHz)
- ✓ Modulation Modes: AM, FM, Pulse, ϕ , FSK, PSK
- ✓ Rapid Pulse Modulation: typ. 200 ns
- ✓ Internal Modulator (Sine Wave, Square Wave, Triangle, Sawtooth) 10 Hz...150 kHz [200 kHz]
- ✓ High Spectral Purity
- ✓ 10 Configuration Memories including Turn-On Configuration
- ✓ Standard: TCXO (Temperature Stability: \pm 0.5 x 10⁻⁶)
Optional: OCXO (Temperature Stability: \pm 1 x 10⁻⁸)
- ✓ Galvanically isolated USB/RS-232 Interface, optional IEEE-488 (GPIB)

GREAT VALUE IN TEST & MEASUREMENT

+++ HAMEG MODULAR SYSTEM SERIES 8000 +++ HAMEG MODULAR SYSTEM SERIES 8000 +++ HAMEG MODULAR SYSTEM SERIES 8000 +++



4 1/2-Digit Programmable Multimeter HM8012



LCR-Meter HM8018



1.6 GHz Universal Counter HM8021-4



10 MHz Function Generator HM8030-6



Triple Power Supply HM8040-3



Blank Module HM800

In many years of practical application the **HAMEG Modular System Series 8000** has proven its value to the customer. The advantages of this Modular System have been demonstrated by several 100,000 modules sold. The unexcelled price-performance ratio and the enormous flexibility of the plug-in system allow you to adapt your measurement setups quickly and cost effectively to changing requirements. The mainframe allows the simultaneous operation of two modules.



Mainframe HM8001-2

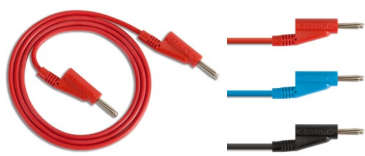
HZ547 VSWR BRIDGE 3GHz



This unit is used to measure the voltage standing wave ratio (VSWR) and the reflection coefficient of a device under test with an impedance of 50 Ω.

Frequency range:	100 kHz...3GHz
Impedance:	50 Ω
Directivity:	> 28 dB (100...300 kHz) > 35 dB (300 kHz...1 GHz) > 30 dB (1...3 GHz)
Reflection loss at DUT port:	> 20 dB
Insertion loss	
IN → OUT:	20 dB (100...300 kHz)
IN → OUT:	18 dB (300 kHz...3 GHz)
IN → DUT:	1.7 dB
DUT → OUT:	16 dB
Max. Power Dissipation:	+26 dBm
Connectors:	N (female)
Dimensions:	150 x 68 x 29.5 mm (W x H x D), without connectors
Weight:	approx. 650 g
Temperature range:	+10...+ 45 °C
Accessories supplied:	HZ525 (Termination 50 Ω 1W), N male to N male (2 pcs.), Carrying case (265 x 225 x 50 mm W x H x D)

HZ10 SILICONE TEST LEAD



Silicone test lead with stackable banana plugs
Length: 1.0 m
Packaging unit: set of 5
HZ10R color: red
HZ10B color: blue
HZ10S color: black

HZ24 SET OF ATTENUATORS 50 Ω



One set of 50 Ω attenuators with 3/6/10/20 dB attenuation (1 GHz, 1 Watt) and 1HZ22.

Packaging unit: 1 set

HZ181 4 TERMINAL TEST FIXTURE INCLUDING SHORTING PLATE



4 Terminal Test Fixture including Shorting Plate (for HM8118) for evaluation of lead type devices.

HZ186 4 TERMINAL TRANSFORMER TEST CABLE



Transformer Test Cable (for HM8118) for transformer measurements

H0730 DUAL ETHERNET/USB INTERFACE



- Ethernet 10/100 MBit/s
- Additionally integrated Web Server
- Screenshot Function using Web Server
- USB 2.0 Standard, USB Type B Connector
- For mounting into Oscilloscopes HM1008, HM1508, HM1008-2, HM1500-2, HM1508-2, HM2005-2, HM2008, Series HMF, HMO, HMP and HMS

H0740 IEEE-488 (GPIB) INTERFACE



- 24-pin Connection in Accordance with IEEE-488 (GPIB) (socket)
- Galvanic Separation of Test Device and Interface
- For mounting into Oscilloscopes HM1008, HM1508, HM1008-2, HM1500-2, HM1508-2, HM2005-2, HM2008, Series HMF, HMO, HMP and HMS

HZ090/HZ99 CARRYING CASE

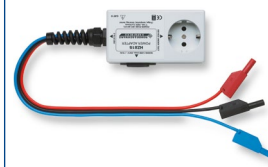


We recommend the HZ99 Carrying Case for protection and transport of oscilloscopes (HMO2524, HMO352x) and spectrum analyzers (HMS series), the HZ090 Carrying Case for protection and transport of HM072x...HMO202x. The instruments can be transported conveniently and safely in the case.



HZ815 POWER ADAPTER

FOR HM8115-2



Adapter for simplified measurement of power consumption, line voltage and current consumption of mains operated consumers (3-wire grounding-type plug or European standard plug) using the HM8115-2 Power Meter.

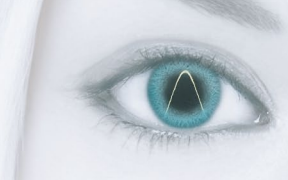
H03508 [H03516] LOGIC PROBE

FOR HMO SERIES

- Logic Probe H03508 for MSO Extension, also available in a double Package as H03516 (2 x H03508)
- With the Logic Probe H03508, 8 Logic Channels (LCH 0...LCH 7 or LCH 8...LCH 15) are available in MSO Mode
- The Display on the Oscilloscope will be either as individual Channels or as a Bus Display
- Decoding may be in the ASCII, Binary, Decimal or Hexadecimal formats
- The Threshold can be adjusted for 8 Logic Channels as a Group at the Oscilloscope
- The Activation of the Logic Channels is indicated by a LED on the Logic Probe



GREAT VALUE IN TEST & MEASUREMENT



HZ154 1:1/10:1 10/100MHZ PROBE



Attenuation ratio: 1:1
Switchable: 10:1
Bandwidth: 10/100MHz
Rise time: <35/3.5ns
Input impedance: 1/10MΩ || 82/12pF
Max. voltage: (10:1) 600V
(DC + peak AC)

HZ010 10:1 250MHZ PROBE



Attenuation ratio: 10:1
Bandwidth: 250MHz
Rise time: <1,4ns
Input impedance: 10MΩ || 15pF
Max. Voltage: 400V
(DC + peak AC)
Measuring category: CAT I

HZ350 10:1 350MHZ PROBE



Attenuation ratio: 10:1
Bandwidth: 350MHz
Rise time: <1.0ns
Input impedance: 10MΩ || 12pF
Max. Voltage: 400V (DC + peak AC)
Probe factor identification:
automatically after plugging

HZ355 10:1 500MHZ PROBE



Attenuation ratio: 10:1
Bandwidth: 500MHz
Rise time: <700ps
Input impedance: 10MΩ || 9.5pF
Max. Voltage: 400V (DC + peak AC)
Probe factor identification:
automatically after plugging

HZ020 1000:1 HIGH VOLTAGE PROBE



Attenuation ratio: 1000:1
Bandwidth: 400MHz
Rise time: <900ps
Input impedance: 50MΩ || 7.5pF
Max. Voltage: 1000V_{rms}
Probe factor identification:
automatically after plugging

HZ050/HZ051 AC/DC CURRENT PROBES



Measurement range: ±20A_{rms}/30A_p
Accuracy: ±1%/±2mA
Bandwidth: DC...100kHz (0.5dB)
Resolution: ±1mA
Output voltage: 100mV/A
Load impedance: >100kΩ || ≤100pF
Max. Voltage: 300V_{rms} (AC or DC)

±100A_{rms}/1000A_{rms}
±1%/±0.1A/±0.5A
DC...20kHz
±100mA/±500mA
>100kΩ || ≤100pF
300V_{rms} (AC or DC)

HZ030 1GHZ ACTIVE PROBE



Attenuation ratio: 10:1
Bandwidth: 1GHz
Rise time: 600ps
Input impedance: 1MΩ || 0.9pF
Max. Input voltage: 20V
Input Dynamic Range: ±8V
Oscilloscope Input Coupling: 50Ω

HZ040/HZ041 DIFFERENTIAL PROBES 10:1



	HZ040	HZ041
Bandwidth:	200MHz	800MHz
Attenuation ratio:	10:1	10:1
Rise time (10...90%):	1.75ns	437ps
Gain accuracy:	±1%	±2%
Max. Input Voltage per Input:	±60V	±40V
Max. Differential Input Voltage (DC + peak AC):	±20V	±15V
Max. Common Mode Input Voltage:	±60V	±30V
Input impedance		
Between Inputs:	1MΩ 3.5pF	200kΩ 1pF
Each Input to Ground:	500kΩ 7pF	100kΩ 2pF
Output Voltage (into 50Ω):	±2V	±1.5V
Offset (typical):	±2mV	±5mV
CMRR (typical):	-80dB at 60Hz -50dB at 10MHz	-60dB at 60Hz -15dB at 500MHz
Battery operation:	9V battery 6LR61	9V battery 6LR61

HZ115 100:1/1000:1 DIFFERENTIAL PROBE

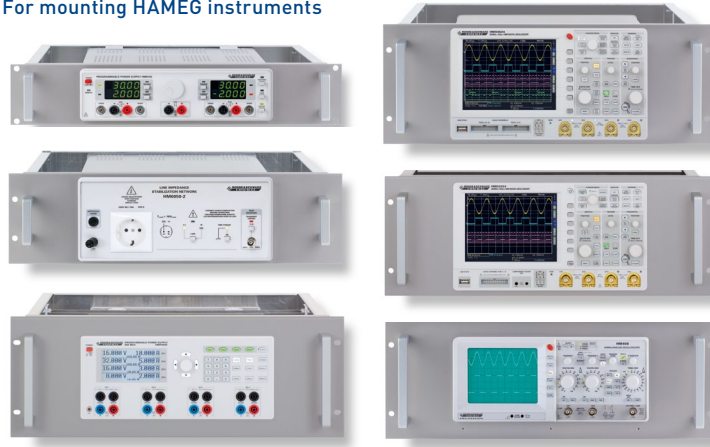


Switchable: 1000:1
Bandwidth: 20/30MHz
Rise time: 17/12ns
Input impedance: 60MΩ || 1.5pF
Output impedance: 50Ω
Max. output voltage: ±1.5V at 1MΩ
Accuracy after 1 min: ±3% (18...30°C)
Common mode rejection
DC/AC 1MHz: 70dB / >50dB
Inputs (CAT III): 2 safety connectors
Battery operation: 9V battery 6LR61

Differential input voltage (AC_{rms}): 1000V
(DC + peak AC) max.: ±1400V
Max. input voltage per input: ±1400V
Attenuation ratio: 100:1

HZ42, HZ43, HZ45, HZ46, HZ091, HZP91 19" RACKMOUNT KIT

For mounting HAMEG instruments



HZ42 2 RU: 88mm
Dimensions (W x D): 440 x 360 mm plus overhang of the instrument
(for Series 8100, HM8143, HM7042-5, HM8001-2, HMP2020, HMP2030 and HMF Series) Case height 75 mm

HZ43 3 RU: 132.5 mm
Dimensions (W x D): 440 x 360 mm plus overhang of the instrument
(for HM2005, HM303-6, HM504-2, HM507, HM5510, HM5014-2, HM5530, HM6050-2, HM7044, HMP4030, HMP4040) Case height 125 mm

HZ45 4 RU: 177 mm
Dimensions (W x D): 440 x 360 mm plus overhang of the instrument
(for HM400, HM1000, HM1000-2, HM1008, HM1008-2, HM1500, HM1500-2, HM1508, HM1508-2, HM2005-2, HM2008) Case height 125 mm

HZ46 4 RU: 177 mm
Dimensions (W x D): 440 x 170 mm plus overhang of the instrument
(for HMO352X, HMO2524 and HMS Series) Case height 175 mm

HZ091 4 RU: 177 mm
Dimensions (W x D): 440 x 110 mm plus overhang of the instrument
(for HMO72X, HMO102X, HMO152X, HMO202X) Case height 175 mm

HZP91 4 RU: 177 mm
Dimensions (W x D): 440 x 360 mm plus overhang of the instrument
(for HMP4030, HMP4040) Case height 125 mm