

# R&S® HM8000 Modular System

## Configure your individual set of test instruments



### The perfect choice for

Education

Hobbyists

Maintenance & repair

### Key specifications

Function generator	up to 10 MHz, up to 10 V <sub>pp</sub> waveforms: sine, triangle, square wave, pulse, DC
Triple power supply	2 x 0 V to 20 V/0.5 A, 1 x 5 V/1 A
LCR meter	measurement functions: L, C, R, $\Theta$ , Q, D,  Z   basic accuracy: 0.2 %
4 3/4-digit multimeter	50 000 counts  basic accuracy: 0.05 %

### Key features

- Unsurpassed price-performance ratio and enormous flexibility of plug-in system
- Multimeter, LCR meter, function generator and triple power supply can be combined into a set
- Mainframe allows simultaneous operation of two modules
- Space-saving by stacking up to 5 mainframes
- Blank module available for customized instrument design

### Your benefit

Unsurpassed price-performance ratio

Flexibility

Blank module available

### Features

Very suitable for education; high performance for any type of basic electronic training

Four different instruments can be combined into a space-saving set to meet individual requirements

- To easily build customized circuitries
- Power is supplied by the mainframe
- Can also be used to fill unused slots

► For more information, visit  
[www.rohde-schwarz.com/product/HM8001](http://www.rohde-schwarz.com/product/HM8001)

### R&S®HM8030-6 function generator



- Frequency range: 50 mHz to 10 MHz
- Output voltage: up to 10 Vpp (into 50Ω)
- Waveforms: sine, triangle, square wave, pulse, DC
- Distortion: < 0.5 % up to 1 MHz, rise and fall time of typ. 15 ns

### R&S®HM8040-3 triple power supply



- 2 x 0 V to 20 V/0.5 A; 1 x 5 V/1 A
- 3-digit switchable displays for current and voltage
- Display resolution: 0.1 V/1 mA
- Adjustable current limiting and electronic fuse

### R&S®HM8018 LCR meter



- Measurement functions: L, C, R,  $\Theta$ , Q/D, |Z|
- Basic accuracy: 0.2 %
- Meas. frequencies: 100 Hz, 120 Hz, 1 kHz, 10 kHz, 25 kHz
- Max. resolution: 0.001  $\Omega$ , 0.001 pF, 0.01  $\mu$ H

### R&S®HM8012 4 $\frac{3}{4}$ -digit multimeter



- 4 $\frac{3}{4}$ -digit display with 50 000 counts
- Basic accuracy: 0.05 %
- Max. resolution: 10  $\mu$ V, 0.01 dBm, 10 nA, 10 m $\Omega$ , 0.1  $^{\circ}$ C
- Offset function and relative value measurements

### R&S®HM8001 mainframe



- **Module supply voltages:**  
2 x 8 V (AC), max. 5.5 A each  
2 x 5 V (DC), max. 1 A each  
4 x 20 V (DC), max. 0.5 A each
- Power consumption per module: max. 25 W
- DC voltages electronically regulated, floating and short-circuit proof

### Ordering information

#### Step 1: choose mainframe (fits up to 2 modules)

R&S®HM8001-2	Mainframe

#### Step 2: choose instrument modules

R&S®HM8030-6	Function generator
R&S®HM8040-3	Triple power supply
R&S®HM8012	4 $\frac{3}{4}$ -digit multimeter
R&S®HM8018	LCR meter
R&S®HM800	Blank module



R&S®HM800 blank module

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