R&S®HE400MW Microwave Handheld Directional Antenna

20 MHz to 20 GHz

For locating transmitters and interference sources

New



R&S®HF400VHF



R&S®HE400CEL



R&S®HE400UWB



R&S®HE400SCB





The R&S®HE400MW microwave handheld directional antenna is used to locate transmitters and interference sources. Bearings are found by manually pointing the antenna in the direction where the signal is strongest.

The antenna is optimized to be used with the R&S°FSH and the R&S°Spectrum Rider FPH handheld spectrum analyzers as well as R&S°Cable Rider ZPH cable and antenna analyzer.

It consists of an antenna handle, a receiver-customized cable set and different antenna modules that can easily be attached using a locking ring. Six different antenna modules are available, allowing the reception of vertically or horizontally polarized signals. The type of module and its orientation is detected by the antenna handle.

A built-in low-noise amplifier (LNA) can be activated in order to increase system sensitivity. In passive mode, the amplifier is bypassed and the antenna can also be used in the vicinity of strong transmitters.

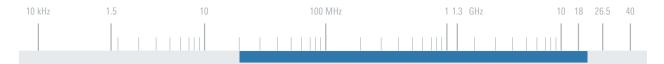
The integrated electronic compass delivers exact azimuth and elevation data. Together with the sensitive GPS- and GLONASS-capable receiver in the antenna handle, precise location accuracy is provided by triangulation.

The integrated trigger button can be used to externally trigger a receiver-configurable action.

Key facts

- Distinct directional pattern
- Wide dynamic range due to switchable active and passive mode (LNA on/off)
- I Very wide frequency range in a compact size
- I Automatic antenna module and polarization detection
- Trigger button for external triggering of the receiver
- I Fatigue-free operation due to antenna design and materials used, which keep weight to a minimum
- I GPS- and GLONASS-capable receiver and electronic compass included
- Tripod thread and adapter thread for smartphone/tablet cradle
- I Exchangeable cable set between antenna and receiver

R&S®HE400SHF



Specifications		
RF specification of antenna handle		
Frequency range	20 MHz to 20 GHz	
Nominal impedance	50 Ω	
VSWR	< 3.0; typ. 2.0	
Output IP3	typ. 26 dBm	
Output 1 dB compression point	typ. 14 dBm	
Destructive field strength	> 10 V/m	
RF specification of antenna modules		
Frequency range I R&S*HE400VHF I R&S*HE400UVB I R&S*HE400LP I R&S*HE400CEL I R&S*HE400SCB I R&S*HE400SHF	 20 MHz to 200 MHz 30 MHz to 6 GHz 450 MHz to 8 GHz 700 MHz to 2500 MHz 1.7 GHz to 6 GHz 5 GHz to 20 GHz 	

RF specification of antenna modules (cont.)		
Polarization	adjustable, linear horizontal or vertical	
Nominal impedance	50 Ω	
VSWR	< 3.5; typ. 2.0	
Operating temperature range	-10°C to +55°C	
Storage temperature range	-25°C to +70°C	
Damp heat	95% at +25°C/+55°C	
Dimensions (with R&S°HE400UWB antenna module)	approx. 600 mm × 285 mm × 60 mm (24 in × 11 in × 2 in)	
Weight	approx. 1.0 kg (2 lb)	

Ordering information	Туре	Order No.
Microwave handheld directional antenna (antenna handle)	R&S®HE400MW	4104.6000.03
VHF antenna module, 20 MHz to 200 MHz	R&S®HE400VHF	4104.8202.02
UWB antenna module, 30 MHz to 6 GHz	R&S®HE400UWB	4104.6900.02
Log-periodic antenna module, 450 MHz to 8 GHz	R&S®HE400LP	4104.8402.02
Cellular antenna module, 700 MHz to 2500 MHz	R&S®HE400CEL	4104.7306.02
S/C band antenna module, 1.7 GHz to 6 GHz	R&S®HE400SCB	4104.7606.02
SHF antenna module, 5 GHz to 20 GHz	R&S®HE400SHF	4104.8602.02
Cable set, for connecting R&S®HE400/HE400MW to R&S®PR100/FSH/FPH/ZPH	R&S®HE400-K	4104.7770.02
Serial to USB adapter, for connecting R&S°HE400/HE400MW to R&S°FPH	R&S®HE300USB	4080.9440.02
Recommended extras		
Transport bags/cases are available for different configurations.		
Tripod, for R&S®HE400 antenna family	R&S®HE400Z4	4104.9109.02

