

R&S®HK353A

VHF/UHF

Omnidirectional ATC Antenna

100 MHz to 156 MHz (VHF)

225 MHz to 400 MHz (UHF)

For air traffic control (ATC)



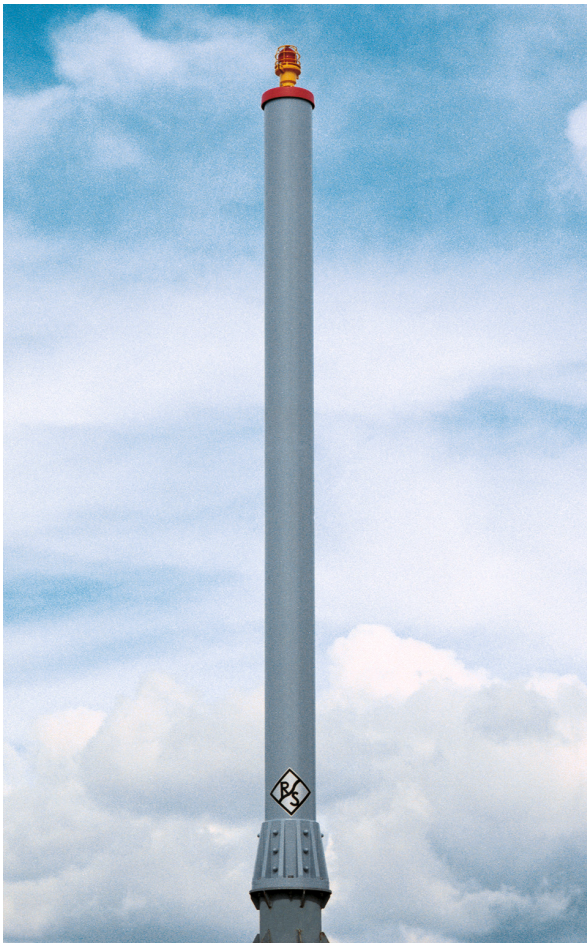
The R&S®HK353A VHF/UHF omnidirectional ATC antenna is designed for ground-to-air ATC communications. Due to its modular design, any number of antenna configurations (up to an overall height of 10 m) can be set up on the mast.

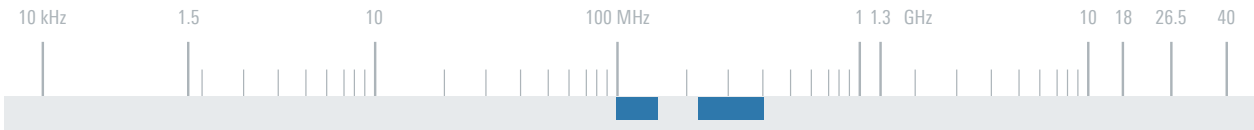
The most important system components are the self-supporting antenna mast, the VHF dipole, the UHF dipole and the specially developed decoupling unit. The coaxial arrangement of the dipoles permits several transmitting and receiving antennas to be set up.

For easy transport, the antenna mast made of glassfiber-reinforced plastic comes in two sections (for masts longer than 6 m). The modular dipoles and the decoupling units are arranged inside the supporting cylinder.

Key facts

- Modular VHF and UHF dipoles
- Extremely high isolation with minimum space requirement
- Components individually combinable
- Self-supporting antenna mast





Specifications	
R&S®HK153D2 VHF dipole	
Frequency range	100 MHz to 156 MHz
Polarization	linear/vertical
Max. input power	700 W CW per dipole
Input impedance	50 Ω
VSWR	< 2.5 (with radome)
Gain	> 2 dBi per dipole
Horizontal radiation pattern	omnidirectional
Uncircularity	< ±1 dB
Dimensions (Ø × L)	approx. 250 mm × 1850 mm (9.8 in × 72.8 in)
Weight	approx. 6 kg (13.2 lb)
R&S®HK253D2 UHF dipole	
Frequency range	225 MHz to 400 MHz
Polarization	linear/vertical
Max. input power	450 W CW per dipole
Input impedance	50 Ω

VSWR	< 2.5 (with radome)
Gain	> 2 dBi per dipole
Horizontal radiation pattern	omnidirectional
Uncircularity	< ±1 dB
Dimensions (Ø × L)	approx. 130 mm × 925 mm (5.1 in × 36.4 in)
Weight	approx. 1.6 kg (3.5 lb)
General data	
Max. wind speed	
Without ice deposit	190 km/h
With 50 mm radial ice deposit	177 km/h
MTBF	> 500000 h
Operating temperature range	-30°C to +50°C
Storage temperature range	-40°C to +70°C
Dimensions (Ø × H)	approx. 280 mm × 2 m to 10 m (max.) (11 in × 78.7 in to 393.7 in (max.))
Weight	depends on system configuration

Ordering information	Type	Order No.
VHF/UHF Omnidirectional ATC Antenna	R&S®HK353A	on request

