

Omnidirectional Antenna

225 – 400 MHz

K 75 40 1. .

- Multi-element antenna, consisting of several separately fed dipoles arranged in line.
- Special models of gain antennas with an integrated power splitter.

Standard models: Multiple-unit antenna

Type No.	K 75 40 12 1	K 75 40 13 1	K 75 40 14 1	K 75 40 15 1
Gain (ref. to the $\lambda/2$ dipole)	2 x 1 dB	3 x 1 dB	4 x 1 dB	5 x 1 dB

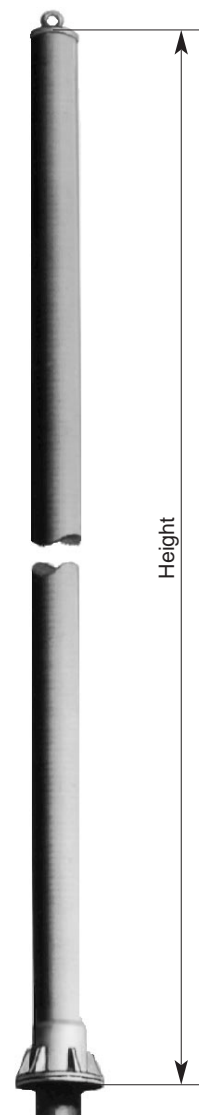
Special models I: Omni-directional gain antenna

Type No.	723 141	725 626	725 772	723 517
Gain (ref. to the $\lambda/2$ dipole)	3 dB	4.5 dB	6 dB	7 dB

Special models II: Multiple unit omni-directional gain antenna

Type No.			723 142	
Gain (ref. to the $\lambda/2$ dipole)			2 x 3 dB	

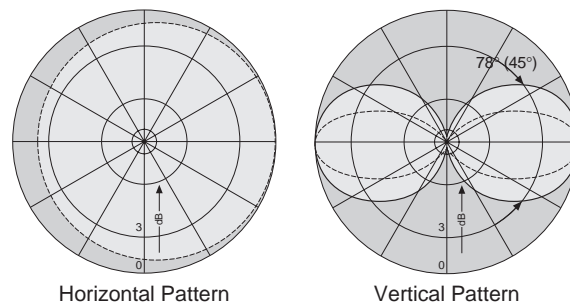
Length	2650 mm	3690 mm	4730 mm	5770 mm
Weight	29 kg	37 kg	49 kg	67 kg
Wind load	430 N	590 N	760 N	940 N
Bending moment	560 Nm	1070 Nm	1780 Nm	2690 Nm
		at 160 km/h		
		at 160 km/h (at attachment point)		
Radome diameter		188 mm		
Max. wind velocity		200 km/h		
Frequency range		225 – 400 MHz		
Bandwidth		175 MHz		
Input	Type N female connectors in the antenna base			
VSWR		< 2.0		
Attenuation		> 27 dB between adjacent dipoles		
Max. input power (CW)		110 Watt (at 50 °C ambient temperature)		
Polarization		Vertical		



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Material:	Radiating elements: Hot dip galvanized steel. Base: Weatherproof aluminum. Radome: Fiberglass, colour: Brown. Internal screws and nuts: Stainless steel.
Mounting:	Flange 320 mm OD for mounting on a flanged supporting pipe.
Scope of supply:	Antenna with neoprene O-ring at the flange, but without screws.
Grounding:	The antenna is DC grounded by a cross section of 214 mm ² hot dip galvanized steel.

For standard models

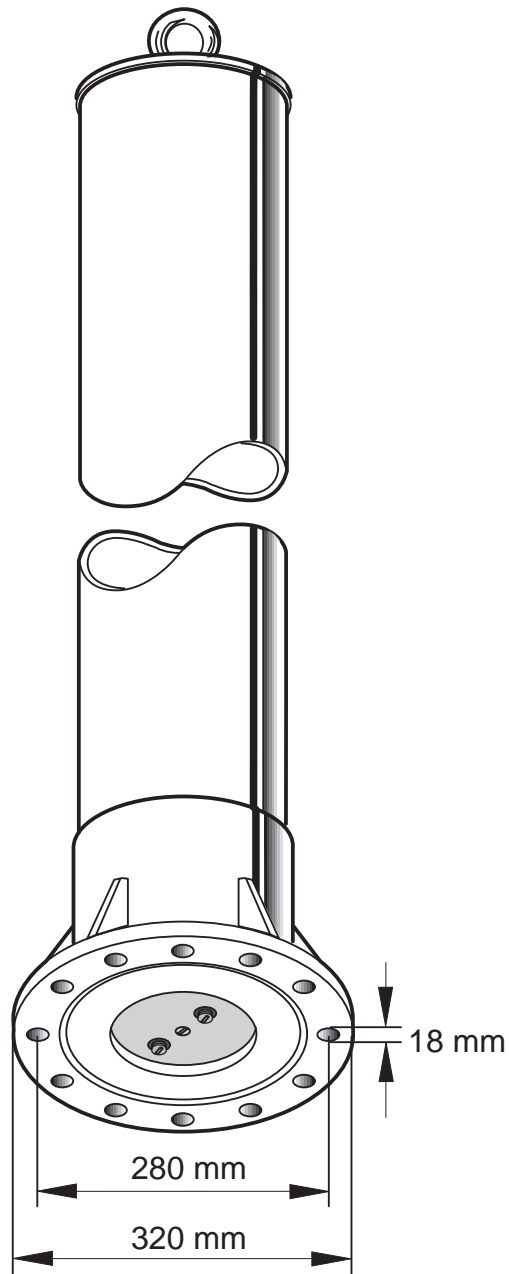


Radiation Pattern ——— 225 MHz 400 MHz

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Antennen · Electronic

K 75 40 12 1



- Mount the aluminum flange on plane surface only (max. unevenness 0.5 mm)
- Put the O-ring carefully into the circular groove of the flange
- Mounting screws: M 16 stainless or hot dip galvanized steel
(min. strength 5.6 accord. DIN 267)
Max. torque: 50 Nm (screws should be greased with MoS₂)
- Put a stainless steel washer between aluminum flange and screw head or nut

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