1920–2170 V



## VPol Omni 1920–2170 360° 11dBi

**Omnidirectional Antenna** 

**Vertical Polarization** 

Туре No.	741 790
Frequency range	1920 – 2170 MHz
Polarization	Vertical
Gain	11 dBi
Impedance	50 Ω
VSWR	< 1.5
Intermodulation IM3	< -150 dBc (2 x 43 dBm carrier)
Max. power	150 W (at 50 °C ambient temperature)





Mechanical specifications		
Input	7-16 female	
Connector position	Bottom	
Weight	5 kg	
Radome diameter	51 mm	
Wind load	120 N (at 150 km/h)	
Max. wind velocity	200 km/h	
Packing size	1570 x 148 x 112 mm	
Height	1387 mm	

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## **Accessories General Information**

## Accessories (order separately)

Туре No.	Description		Remarks	Weight approx.	Units per antenna	
738 908	2 clamps		Mast: 94 – 125 mm diameter	2.8 kg	1	
Mounting:	<b>j:</b> The antenna 50 – 94 mm c (connecting c		can be attached laterally at the tip of a tubular mast of diameter with one U-bolt bracket supplied with the antenna cable runs outside the mast).			
Material:		Radiator: Copper and brass. Radome: Fiberglass, colour: Grey. Base: Weather-proof aluminum. Mounting kit, screws and nuts: Stainless steel.			àrey.	
Solid, reliable c	onstruction:	<ul> <li>Omnidirectional antennas are often installed at exposed sites on the top of masts, so special attention has been paid to their mechnic construction.</li> <li>The exceptionally stiff fiberglass tube with low tip deflection will with wind velocities of up to 200 km/h.</li> </ul>		s on mechnical vill withstand		
Anti-static prot	ection:	All metal parts of the antenna as well as the supplied clamp attachn are grounded. The inner conductor is capacitively coupled.		attachment		
Lightning prote	ection:	The antenna 150 KA (impu VDE 0855-30 protection cla	is designed to withstand a lightning lse: 10/350 $\mu$ s), according to IEC 62 0, and thereby fulfils the requirements II. Grounding cross-section: 22 m	current of u 2305 parts 1 hts of lightni hm² copper.	p to I–4 and ng	
Environmental conditions:		Kathrein cellular antennas are designed to operate under the environ- mental conditions as described in ETS 300 019-1-4 class 4.1 E. The antennas exceed this standard with regard to the following items: – Low temperature: –55 °C – High temperature (dry): +60 °C				
Environmental	nvironmental tests: Kathrein ant in ETS 300 ( families use performed o		nnas have passed environmental tests as recommended 19-2-4. The homogenous design of Kathrein's antenna dentical modules and materials. Extensive tests have been typical samples and modules.			



Please note:	As a result of more stringent legal regulations and judgements regarding product liability, we are obliged to point out certain risks that may arise when products are used under extraordinary operating conditions.			
	The mechanical design is based on the environmental conditions as stipulated in ETS 300 019-1-4 and thereby respects the static mechanical load imposed on an antenna by wind at maximum velocity. Extraordinary operating conditions, such as heavy icing or exceptional dynamic stress (e.g. strain caused by oscillating support structures), may result in the breakage of an antenna or even cause it to fall to the ground. These facts must be considered during the site planning process.			
	The installation team must be properly qualified and also be familiar with the relevant national safety			



regulations. The details given in our data sheets have to be followed carefully when installing the antennas and accessories.

The limits for the coupling torque of RF-connectors, recommended by the connector manufacturers must be obeyed.

Any previous datasheet issues have now become invalid.

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