Panel Dual Polarization Half-power Beam Width Adjust. Electr. Downtilt

790-960 X 65°

KATHREIN Antennen · Electronic

0°-14°

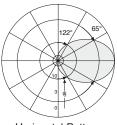
set by hand or by optional RCU (Remote Control Unit)

XPol Panel 790-960 65° 15dBi 0°-14°T

Type No.		80010303vo2				
Frequency range		790 – 862 MHz	790–960 824 – 894 MHz	880 – 960 MHz		
Polarization		+45°, -45°	+45°, -45°	+45°, -45°		
Average gain (dBi) Tilt		14.5 14.4 14.3 0° 7° 14°	14.7 14.5 14.4 0° 7° 14°	15 14.8 14.7 0° 7° 14°		
Horizontal Pattern:						
Half-power beam width		67°	66°	65°		
Front-to-back ratio, copolar		> 24 dB	> 25 dB	> 25 dB		
Cross polar ratio Maindirection Sector	0° ±60°	Typically: 25 dB > 10 dB	Typically: 25 dB > 10 dB	Typically: 25 dB > 10 dB		
Vertical Pattern:						
Half-power beam width		15.7°	15.5°	15°		
Electrical tilt		0°-14°, continuously adjustable				
Sidelobe suppression for first sidelobe above horizon		0° 7° 14° T 15 14 15 dB	0° 7° 14° T 18 15 15 dB	0° 7° 14° T 18 15 15 dB		
Impedance		50 Ω				
VSWR		< 1.5				
Isolation, between ports		> 30 dB				
Intermodulation IM3		<-150 dBc (2 x 43 dBm carrier)				
Max. power per input		400 W (at 50 °C ambient temperature)				



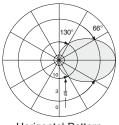
880 - 960 MHz: +45°/-45° Polarization



Horizontal Pattern

Vertical Pattern 0°-14° electrical downtilt

824 - 894 MHz: +45°-45° Polarization

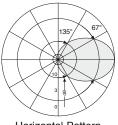


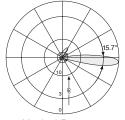


Horizontal Pattern

Vertical Pattern 0°-14° electrical downtilt

790 - 862 MHz: +45\(^-45\)^ Polarization





Horizontal Pattern

Vertical Pattern 0°-14° electrical downtilt

790–960 –45° 790-960 +45° 7-16 7-16

Mechanical specifications						
Input	2 x 7-16 female					
Connector position	Bottom					
Adjustment mechanism	1x, Position bottom continuously adjustable					
Wind load	Frontal: 440 N (at 150 km/h) Lateral: 210 N (at 150 km/h) Rearside: 610 N (at 150 km/h)					
Max. wind velocity	200 km/h					
Height/width/depth	1294 / 259 / 99 mm					
Category of mounting hardware	M (Medium)					
Weight	8.5 kg / 10.5 kg (clamps incl.)					
Packing size	1586 x 292 x 138 mm					
Scope of supply	Panel and 2 units of clamps for 50 – 115 mm diameter					

Internet: www.kathrein.de

936.3885/a Subject to alteration.

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936.3885/a Subject to alteration

Accessories General Information



Accessories

Type No.	Description	Remarks	Weight approx.	Units per antenna
738546	1 clamp	Mast: 50 – 115 mm diameter	1.0 kg	2 (included in the scope of supply)
731651	1 clamp	Mast: 28 – 60 mm diameter	0.8 kg	2 (order separately if required)
85010002	1 clamp	Mast: 110 – 220 mm diameter	2.7 kg	2 (order separately if required)
85010003	1 clamp	Mast: 210 – 380 mm diameter	4.8 kg	2 (order separately if required)
737974	1 downtilt kit	Downtilt angle: 0° - 16°	2.8 kg	1 (order separately if required)

For downtilt mounting use the clamps for an appropriate mast diameter together with the downtilt kit. Wall mounting: No additional mounting kit needed.

Material: Reflector screen: Weather-proof aluminum.

> Fiberglass radome: The grey fiberglass radomes of these antennas are very stable and extraordinarily stiff. They are resistant to ultraviolet radiation and can also be painted to match their surroundings.

All screws and nuts: Stainless steel.

Grounding: The metal parts of the antenna including the mounting kit and the inner

conductors are DC grounded.

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

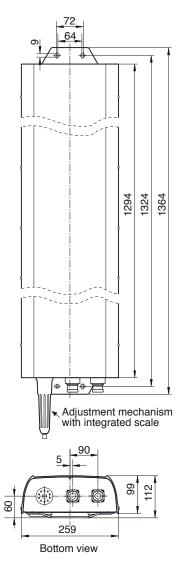
Ice protection: Due to the very sturdy antenna construction and the protection of the radiating system by the radome, the antenna remains

operational even under icy conditions.

Environmental tests: Kathrein antennas have passed environmental tests as recommended

in ETS 300 019-2-4. The homogenous design of Kathrein's antenna families use identical modules and materials. Extensive tests have been

performed on 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. Wind loads are calculated according to DIN 1055-4. 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.