Multi-band Panel Dual Polarization Half-power Beam Width Adjust. Electrical Downtilt

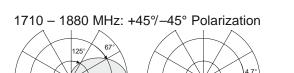




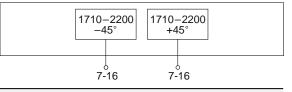
set by hand or by optional RCU (Remote Control Unit)

XPol Panel 1710-2200 65° 19.5dBi 0°-6°T

Туре No.	742213vo1				
Frequency range	[1710–2200] 1710 – 1880 MHz 1850 – 1990 MHz 1920 – 2200 MHz				
Polarization	+45°, -45°	+45°, -45°	+45°, -45°		
Gain	2 x 19 dBi	2 x 19.2 dBi	dBi 2 x 19.5 dBi		
Horizontal Pattern:					
Half-power beam width	67°	65°	63°		
Front-to-back ratio (180° ± 30°)	Copolar: > 30 dB Total power: > 25 dB	Copolar: > 30 dB Total power: > 25 dB	Copolar: > 30 dB Total power: > 25 dB		
Cross polar ratio Maindirection 0° Sector ±60°	Typically: 25 dB > 10 dB	Typically: 25 dB > 10 dB	Typically: 25 dB > 10 dB		
Tracking, Avg.	0.5 dB				
Squint		±2°			
Vertical Pattern:					
Half-power beam width	4.7°	4.5°	4.3°		
Electrical tilt	0°-	0°-6°, continuously adjustable			
Sidelobe suppression for first sidelobe above main beam	0° 2° 4° 6° T 18 18 16 15 dB	0° 2° 4° 6° T 18 18 17 16 dB	0° 2° 4° 6° T 18 18 18 18 dB		
Isolation, between ports	> 30 dB				
Impedance	50 Ω				
VSWR	< 1.5				
Intermodulation IM3	< -150 dBc (2 x 43 dBm carrier)				
Max. power per input	per input 300 W (at 50 °C ambient temperature)				



0°-6° electrical downtilt



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Mechanical specifications

-			
Input	2 x 7-16 female		
Connector position	Bottom		
Adjustment mechanism	1x, Position bottom continuously adjustable		
Wind load	Frontal: 510 N (at 150 km/h) Lateral: 140 N (at 150 km/h) Rearside: 510 N (at 150 km/h)		
Max. wind velocity	200 km/h		
Height/width/depth	1954 / 155 / 70 mm		
Category of mounting hardware	M (Medium)		
Weight	9 kg / 11 kg (clamps incl.)		
Packing size	2235 x 172 x 92 mm		
Scope of supply	Panel and 2 units of clamps for 50 – 115 mm diameter		

742213vo1 Page 1 of 2

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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)
737978	1 downtilt kit	Downtilt angle: 0° – 11°	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: Aluminum. Radiator: Tin-plated zinc. Flat fiberglass radome: The max. radome depth is only 70 mm. Fiber- glass material guarantees optimum performance with regards to stability, stiffness, UV resistance and painting. The colour of the radome is grey. 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.

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KATHREIN

Antennen · Electronic

Bottom view

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.

Page 2 of 2 742213vo1

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936.3740/b Subject to alteration.