F-Panel Vertical Polarization Half-power Beam Width Fixed Electrical Downtilt

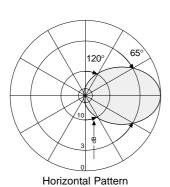
1710–1900	
٧	
65°	

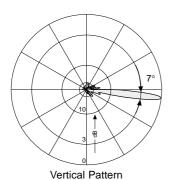
6°



VPol F-Panel 1710-1900 65° 17.5dBi 6°T

Type No.	736 018
Frequency range	1710 – 1900 MHz
Polarization	Vertical
Gain	17.5 dBi
Half-power beam width	H-plane: 65° E-plane: 7°
Electrical downtilt	6°, fixed
Sidelobe suppression	above horizon for first sidelobe better or equal 14 dB below maximum gain
Front-to-back ratio	> 25 dB
Impedance	50 Ω
VSWR	< 1.3 (1710 – 1880 MHz) < 1.5 (1880 – 1900 MHz)
Intermodulation IM3 (2 x 43 dBm carrier)	< -150 dBc
Max. power	200 W (at 50 °C ambient temperature)





- 6° electrical downtilt
- first null-fill below horizon better or equal to –25 dB below maximum gain



Mechanical specifications						
Input	7-16 female					
Connector position	Bottom					
Weight	4.6 kg					
Wind load	Frontal: 260 N (at 150 km/h) Lateral: 55 N (at 150 km/h) Rearside: 310 N (at 150 km/h)					
Max. wind velocity	200 km/h					
Packing size	1404 x 172 x 62 mm					
Height/width/depth	1302 / 155 / 36 mm					

936.709/f Subject to alteration.

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Subject to alteration. 936.709/f

F-Panels Harmony of Design and Technology

KATHREII Antennen · Electronic

Accessories (order separately)

Type No.	Description	Remarks	Material	Weight approx.	Units per antenna
734 360	2 clamps	Mast: 34 – 60 mm dia.	Stainless steel	60 g	1
734 361	2 clamps	Mast: 60 – 80 mm dia.	Stainless steel	70 g	1
734 362	2 clamps	Mast: 80 – 100 mm dia.	Stainless steel	80 g	1
734 363	2 clamps	Mast: 100 – 120 mm dia.	Stainless steel	90 g	1
734 364	2 clamps	Mast: 120 - 140 mm dia.	Stainless steel	110 g	1
734 365	2 clamps	Mast: 45 – 125 mm dia.	Stainless steel	80 g	1
738 546	1 clamp	Mast: 50 – 115 mm dia.	Hot-dip galvanized steel	1.0 kg	2
850 10002	1 clamp	Mast: 110 – 220 mm dia.	Hot-dip galvanized steel	2.7 kg	2
850 10003	1 clamp	Mast: 210 – 380 mm dia.	Hot-dip galvanized steel	4.8 kg	2
732 317	1 downtilt kit	Downtilt angle: 0° – 10°	Stainless steel	1.0 kg	1
732 319	1 slant	For vertical alignment, compensation ±1°.	Stainless steel	200 g	1

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 and radiator: Copper.

> Flat fiberglass radome: The max. radome depth is only 36 mm. Fiberglass 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

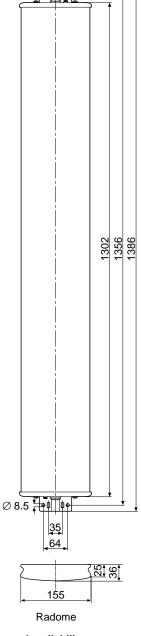
Ice protection: Due to the very sturdy antenna construction and the protection of the radiating system by the radome, the antenna remains

operational even under icy conditions.

Kathrein antennas have passed environmental tests as recommended **Environmental tests:**

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, which includes 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

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.

