



Microwave antenna UNI2-24

Antenna description

High Performance Ø 0.65 m antenna for ALCOMA point to point radiorelay links with standard holder or AFM holder for precise alignment.

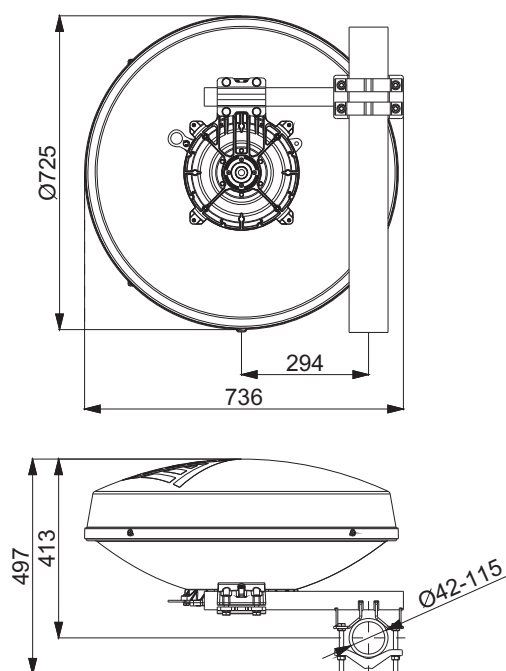
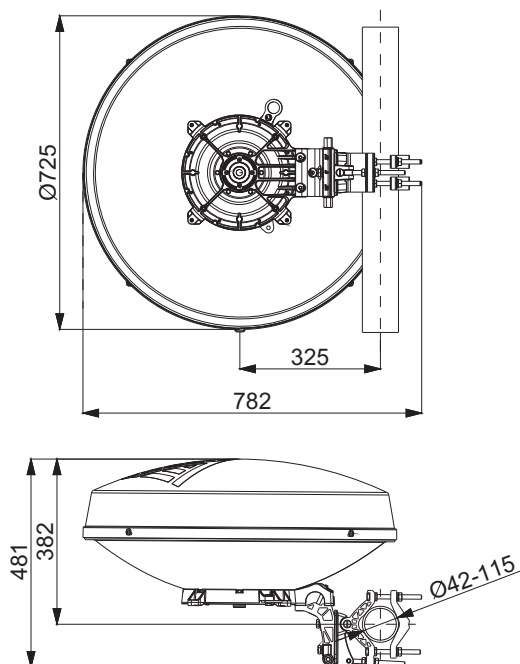
General parameters

Diameter	0.65 m (2 ft.)
Feeder	dual polarized
Polarization	dual
Input flange: - standard	circular, hole diameter 9.50 mm
Environmental temperature	-35 °C to +55 °C
Color	light grey
Radom material	white plastic (ABS + PMMA)



Electrical parameters

Frequency band	24.000 - 24.250 GHz
Gain: - mid band	40.8 dBi
Beamwidth (-3 dB)	1.6° (H / V)
Return loss	< 1.30 (17.7 dB)
Front to Back Ratio	59 dB
Cross Polarization Discrimination	30 dB
Antenna Inter Port Isolation	> 47 dB
Antenna class	2 (ETSI EN 302 217-4-2)

UNI2-24-AF**UNI2-24-AS****ALCOMA**



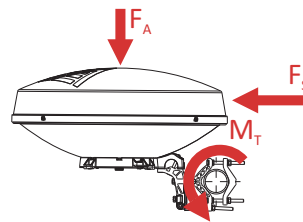
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Mechanical parameters due to wind AL2-24-AF

AL2-24-AS

Performance stability	max 30 m/s (110 km/h)	max 30 m/s (110 km/h)
Survival	max 55 m/s (200 km/h)	max 55 m/s (200 km/h)
Radial ice load (density 7kN/m ³)	25 mm	25 mm
Net weight	8.9 kg	9.1 kg
Pipe diameter*	42 - 115 mm	42 - 115 mm
Adjust azimuth / elevation		±180° / ±20°
Fine adjust azimuth	±15°	—
Fine adjust elevation	±30°	—

Force and twisting moment due to wind



Wind velocity	30 m/s	55 m/s	30 m/s	55 m/s
F_A - axial force	335 N	1090 N	335 N	1090 N
F_S - side force	115 N	365 N	115 N	365 N
M_T - twisting moment	110 Nm	350 Nm	90 Nm	290 Nm
Icing thickness 25 mm				

* diameter 42 - 48 mm can be used when the wind speed does not exceed 50 m/s (180 km/h)