1.8m (6ft) ultra high performance low profile dual-polarized antenna



General Specifications

Diameter, nominal, m (ft)	1.8 (6)
Polarization	Dual, V and H
Antenna Interface	Standard Flange
Antenna Color	Gray
Radome Color	White
Radome Material Description	High-strength Compound Fabric
Packing	Fumigating-free plywood case
RoHS	Compliant

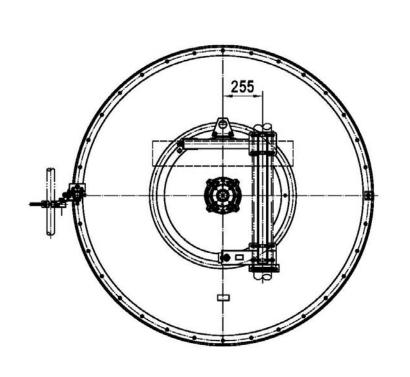
Electrical Specifications

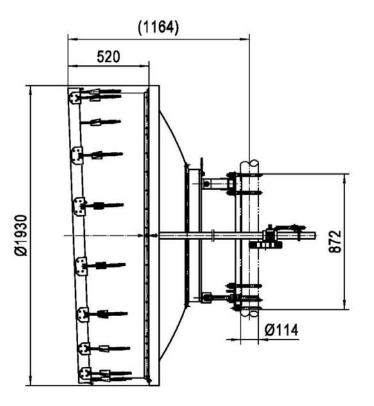
Antenna Type	WTC18-144SAR-CFB
Frequency Band (GHz)	14.40~15.35
Standard Flange	PBR140
Gain (dBi), Low	45.9
Gain (dBi), Mid	46.2
Gain (dBi), High	46.5
3 dB BW (°)	0.8
VSWR	1.30
F/B Ratio (dB)	74
Isolation(dB)	35
XPD (dB)	30
ETSI Standard	R2, C3

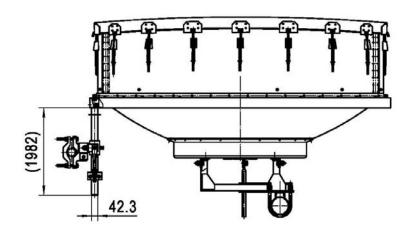
Mechanical Specifications

200
250
360
±5
±5
φ114
Watertight
50
-45 ~ +60
-55 ~ +70
25
1
NA
102±5
173±8
2100
630
2205
2.92

Outline Dimensions

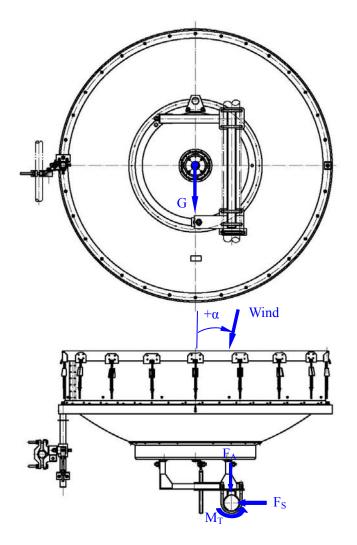






Wind Forces

The axial, side and twisting moment forces stated are maximum loads applied to the tower by the antenna at a survival wind speed of 250 km/h. They are, in every case, the result of wind from the most critical direction for each parameter. The individual maximums may not occur simultaneously. All forces are referenced to the antenna mounting pipe.



Axial Force (F _A), N	11150
Side Force (F _S), N	5470
Twisting Moment (M _T), N•m	4390
Angle α for MT Max, Degree	-110

Radiation Pattern Envelope

Co-polar and X-polar response are represented for both horizontal and vertical polarizations. The curves are identified as follows:

- HH Response of horizontally polarized port to a horizontally polarized signal.
- HV Response of horizontally polarized port to a vertically polarized signal.
- VV Response of vertically polarized port to a vertically polarized signal.
- VH Response of vertically polarized port to a horizontally polarized signal.

1.8m 14.40-15.35GHz RADIATION PATTERN ENVELOPE

