

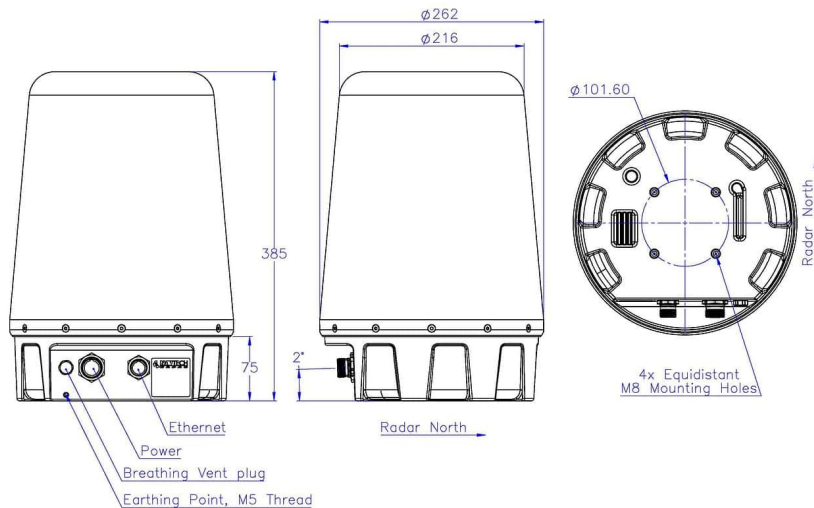


## RAS6 - Navtech Radar

SPECIFICATIONS	RAS6
<b>Performance</b>	
Operating Frequency	76-77 GHz
Range Resolution	0.044m / 0.175m / 0.292m
Instrumented Range	330m / 600m / 11000m
Azimuth Beamwidth	1.8°
Elevation Beamwidth	1.8° / 21.8° with infill / 3.6°
Field of View	360°
Update Rate	4Hz / 38Hz
<b>Output and integration</b>	
Data Format	Timestamped azimuth with FFT Navigation Mode "Sub resolved Peaks" CFAR "Point Cloud" ASTERIX CAT-240 "Radar Video"
Measurement Rate	400 / 4800
Time Synchronisation	NTP / PTP
Data Connection	TCP/UDP over gigabit ethernet
<b>Physical</b>	
Diameter	262mm
Height	385mm
Mounting	4 x M8 mounting holes on 4" (101.6mm) equally spaced PCD
Weight (without cables)	7.8kg
Power Consumption	<sup>5</sup> 24W

Specifications	RAS6
Operation Voltage	24V DC
Operating Temperature	-20°C +60°C
Power and Data Connector Type	D38999 Mil Spec
Vibration	7.5g RMS to 1,000Hz
Shock	7400 m/s <sup>2</sup> (40g) 11ms duration
Ingress	IP69K, UL50/50E Type 4x
Compliance	EMC Directive - 2014/30/EU Low Voltage Directive - 2014/35/EU Radio Equipment Directive - 2014/53/EU ROHS IEC60945

## DIMENSIONS



- 1 - By request only, for more information please contact [industrial.automation@navtechradar.com](mailto:industrial.automation@navtechradar.com)
- 2 - Include cosec feature that directs portion of main beam energy down to create infill minimizing blind spot when the radar is placed at height.
- 3 - By request only, for more information please contact [industrial.automation@navtechradar.com](mailto:industrial.automation@navtechradar.com)
- 4 - By request only, for more information please contact [industrial.automation@navtechradar.com](mailto:industrial.automation@navtechradar.com)
- 5 - When heater is used this can increase power consumption up to 50W, for more information please contact [industrial.automation@navtechradar.com](mailto:industrial.automation@navtechradar.com)
- 6 - For applications in environments outside of operating temperature range, please contact [industrial.automation@navtechradar.com](mailto:industrial.automation@navtechradar.com)
- 7 - Environment Test Criteria for the Acceptability of Mine Instrumentation, DEF STAN 00-035

### Navtech Radar

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