

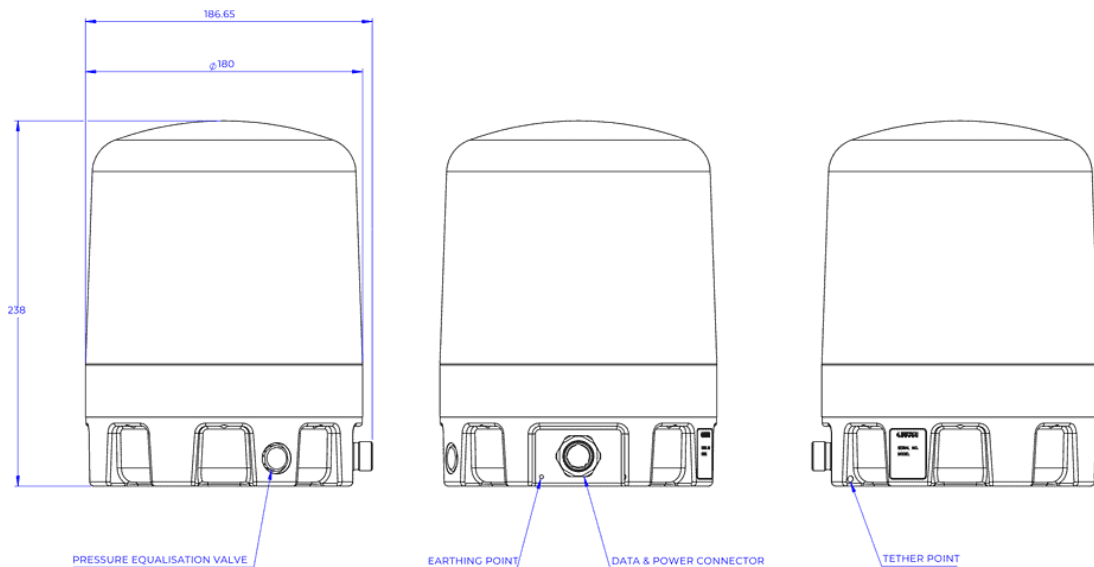


## RAS3 - Navtech Radar

SPECIFICATIONS	RAS3
<b>Performance</b>	
Operating Frequency	76-77 GHz
Range Resolution	0.044m / 0.175m
Instrumented Range	75m / 270m
Azimuth Beamwidth	2.8°
Elevation Beamwidth	3.6° / 13.3° with infill
Field of View	360°
Update Rate	4Hz/ 210Hz
<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
Time Synchronisation	NTP / PTP
Data Connection	TCP/UDP over gigabit ethernet
<b>Physical</b>	
Diameter	180mm
Height	238mm
Mounting	4 x M8 mounting holes on 4" (101.6mm) equally spaced PCD
Weight (without cables)	3.8kg
Power Consumption	24W

Specifications	RAS3
Operation Voltage	24V DC
Operating Temperature	$^{-3-20^{\circ}\text{C}}$ $^{+60^{\circ}\text{C}}$
Power and Data Connector Type	D38999 Mil Spec
Vibration	45g RMS to 1,000Hz
Shock	$^{400\text{ m/s}^2}$ (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 - Include cosec feature that directs portion of main beam energy down to create infill minimizing blind spot when the radar is placed at height.
- 2 - 10Hz mode in development
- 3 - For applications in environments outside of operating temperature range, please contact [industrial.automation@navtechradar.com](mailto:industrial.automation@navtechradar.com)
- 4 - Environment Test Criteria for the Acceptability of Mine Instrumentation, DEF STAN 00-035

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