

# PADS<sup>®</sup> ASonde

For Guided & Unguided Airdrop Systems

PADS<sup>®</sup> (Precision Airdrop System) ASonde provides aircrews with in-situ weather information to assist with guided, ballistic and personnel airdrop operations and meteorological applications.

## Applications

For guided and unguided airdrop systems, the real-time data from PADS<sup>®</sup> ASonde allows mission planners to increase standoff and deliver cargo and personnel from higher altitudes with greater precision and safety than conventional methods. When used in conjunction with the PADS<sup>®</sup> UHF Dropsonde Receiver Sub-system (UHF-DRS), a 70% improvement has been demonstrated for impact point accuracy for high altitude ballistic airdrop systems.

PADS<sup>®</sup> ASonde is also used to assist meteorological applications by measuring wind speed and direction in remote areas.

## Key Features and Benefits

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Simple to operate

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11 programmable frequencies adds flexibility to operations

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Single indicator for power and GPS lock

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Operational in excess of 25,000 ft MSL

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Optional parachute color supports for training and combat operations

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Replaceable batteries

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Run-time feature determines remaining operational life

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Provides safety by increasing standoff

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Delivers cargo and personnel with greater precision

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Offers real-time data to support guided, ballistic and personnel airdrop operations

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Supports meteorological applications in remote areas

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## PADS® ASonde Specifications

<b>Engineering</b>	All PADS® equipment is designed and manufactured to meet the stringent requirements for operating onboard DoD aircraft. They are certified by the USAF for operations on C-130E/H, C-130J/J-30, C-17 and a variety of other military aircraft and is tested to meet or exceed the requirements of: MIL-STD-461(C)(E) MIL-STD-810 Explosive Environment and Rapid Decompression
<b>Operating Frequency</b>	400.5 to 405.5 MHz
<b>Output Power</b>	>23 dBm (200 mW) Minimum >25 dBm (320 mW) Nominal
<b>Battery Life</b>	>90 Minutes
<b>Wind Speed</b>	+/- 1 m/s
<b>Wind Directions</b>	+/- 1 degree
<b>Length</b>	Stowed 9" (22.86 cm) With Antenna 15.5" (29.37 cm)
<b>Diameter</b>	2.25" (5.72 cm)
<b>Weight</b>	1.73 lbs (785 g)
<b>Rate of Fall</b>	70 fps (nominal at sea level)
<b>Maximum Altitude</b>	25,000 ft MSL
<b>Visual Cuing</b>	Single LED

## Collaborating with QinetiQ

At QinetiQ we bring organizations and people together to provide innovative solutions to real world problems, creating customer advantage. Working with our partners and customers, we collaborate widely, working in partnership, listening hard and thinking through what customers need. Building trusted partnerships, we are helping customers anticipate and shape future requirements, adding value and future advantage.

[www.QinetiQ.com](http://www.QinetiQ.com)

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