

PADS[®]

Self-Contained Kit

Calculates wind for precise airdrop release

QinetiQ North America's PADS, Precision Airdrop System, self-contained kit, calculates wind data used in planning important missions such as free fall parachute navigation and guided airdrop delivery. The data generated is used for defense, foreign aid and military and non-military aircraft (fixed and rotary wing).

How it works:

The PADS Self-Contained Kit consists of a UHF Dropsonde Receive System, GPS Retransmission System, internal power supply and all of the ancillary hardware to operate on any type of aircraft. The UHF Dropsonde Receive System receives data from a handlaunched PADS Dropsonde and transfers the information to mission planning computers used to compute a precise airdrop release point. The GPS Retransmission System rebroadcasts the GPS signal inside the aircraft's cargo/passenger area. The rebroadcasted signal allows a PADS Dropsonde, Guided Cargo System or military parachutist to achieve "GPS lock" prior to exiting the aircraft to ensure a successful mission. The PADS Kit operates completely independent of aircraft systems (including power) and is housed in a waterproof and shock resistant case that is easily transported.

Applications

- Situational awareness for freefall parachutist navigation systems off any aircraft type
- Positional awareness for Joint Precision Air Drop System (JPADS) guided airdrop loads
- Use by rapid mobility forces



FEATURES/BENEFITS

- Data transmission works with a variety of computer types
- Used with guided or ballistic airdrop loads
- Internal power system based on readily available BA-5590/U batteries
- Easy installation and removal through the use of external kit connectors
- Easy to operate—requires minimal training
- Independent of aircraft systems
- Portable
- Kit housed in waterproof, shock-resistant case

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Engineering

PADS equipment is engineered to meet or exceed the stringent requirements for operating onboard DoD aircraft.



Options

- No identifiable markings for special applications
- Mission planning laptop with or without software

Specifications

- Kit Dimensions:
24" (L) x 20" (W) x 12" (H)
- Internal Power System:
Battery type: BA-5590/U (4 each)
- Operating Voltage:
24 to 28 Volts DC
- Operating Life: 8 continuous hours
- Operating Indicators: NVG compliant LEDs
- Voltage Monitoring: Real time with meter & LED
- UHF Dropsonde Receiver System
- Operating Frequency: 400.5 to 405.5 MHz
- UHF Antenna System: 6 quick sections and precision UHF antenna
- Communications Path: CAT5 Ethernet cable
- GPS Retransmission System Operating Frequency: GPS L1 Band L2 optional
- Receive Antenna: window mount Rx antenna with cabling
- RTS Antenna: 2 adjustable Tx antennas with cabling

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