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WAND-PDC Data Sheet

WAND Payload Data Collector

The WAND Payload Data Collector (WAND-PDC) is a modular ultrasonic monitoring system designed for industrial inspection drones, enabling wall thickness data collection in hazardous and inaccessible locations. The solution consists of an electronic payload that collects ultrasonic wall thickness measurements (UTM) and transmits data wirelessly, along with a reader assembly that includes ultrasonic coils and an RFID reader to communicate with the sensors. WAND-PDC can operate either as a standalone system with an Inductosense ground station or as part of an integrated UAV platform, enabling data transmission and visualisation during inspections.

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Technical Specifications

Product Code	WAND-PDC
System Components	Main electronics module (ultrasonic signal electronics and long-range wireless data link); reader assembly (inductive ultrasonic coils and RFID reader)
Data Collector Dimensions	12.5 cm (L) x 9 cm (W) x 2.4 cm (H)
	4.92 inches (L) x 3.54 inches (W) x 0.94 inches (H)
Reader Dimensions	9.8 cm (L) x 6.3 cm (W) x 5 cm (H)
	3.86 inches (L) x 2.48 inches (W) x 1.97 inches (H)
Payload Weight	300 g
	10.6 oz
Modes of Operation	Standalone; Integrated
Standalone Communication	2.4 GHz Long Range Wi-Fi
Wireless Range	Up to 100 m
	Up to 328 ft
Reading Rate	>4 per second
Latency	<0.5 seconds
Power Supply	UAV or other USB power source
Power Input	5 V, 2 A max (5 W continuous)
UAV Compatibility	Flyability Elios 3; ScoutDI Scout 137 Gen3; Voliro T
Accessory Compatibility	ECHO accessory
Cable Length Options	20cm, 30cm, 50cm, 70cm , 100cm
	7.87 inches, 11.81 inches, 19.69 inches, 27.56 inches, 39.37 inches

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- An ECHO accessory is required when thickness readings are taken under insulation.
- WAND-PDC can be operated in standalone or integrated mode. In the latter case, data is sent via the UAV's data link, and range is thus dependent on that link's performance

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