

WAND-RDC

The WAND Remote Data Collector (WAND-RDC) is an intrinsically safe, ATEX approved and battery-powered device designed to be used with the WAND sensors. The WAND-RDC activates and collect thickness readings from the WAND sensors automatically at predefined intervals or on demand. The module then transmits the data wirelessly by long range Bluetooth5.

A single RDC module can be connected up to 8 preinstalled WAND sensors, using reader pads. The reader pads utilize the WAND inductive coupling technology, and this means the sensors can also be activated through materials such as coatings and insulation.

The WAND-RDC is configured using the Inductosense Data Analysis and Reporting Toolkit (i-DART) app. Using i-DART, the WAND-RDC can be prompted to retrieve live thickness readings, and also programmed to schedule automatic data collection at predefined intervals. The WAND-RDC collects and logs thickness measurements, which can then be retrieved wirelessly by Bluetooth5 at a range of up to 200m. The data can be transferred to the i-DART cloud with access to WiFi.



The WAND-RDC is a lightweight module that can be retrofitted to preinstalled WAND sensors to collect and transmit thickness data wirelessly

- ① **Up to 8 WAND sensors can be connected to each WAND-RDC module**
- ② **Utilizes WAND inductive coupling technology - thickness readings can be acquired from underneath coating and insulation**
- ③ **Power efficient design (5-year minimum battery life based on 8 readings a day)**
- ④ **No network set up is required to use, the WAND-RDC can be used 'straight out of the box'**
- ⑤ **Inbuilt thermocouple for temperature compensation**

Specifications

Product code	WAND-RDC
Dimensions (RDC module)	19cm x 13cm x 9cm
Weight (RDC module)	1.15kg
Dimensions (reader pad)	7.5cm OD, 0.3cm thick
Reader pad cable length	2m standard (variable lengths available on request)
Wireless communication	Bluetooth5
Wireless range	200m (line of sight)
Port configuration	8 x WAND sensor ports; 1 x thermocouple; 1 USB
Device storage	1500 readings (at one time)
Battery life	5-year (based on 8 readings per day)
Minimum operating temperature	-20°C
Maximum operating temperature	70°C
IP rating	IP67
Certifications	Ex ia IIC T4 Ga IECEX CSAE 21.0003X

The WAND solution has been designed to enable accurate thickness monitoring for enhanced safety, and to help reduce inspection costs.

WAND is ideal for thickness monitoring of difficult access locations, critical/high frequency locations, as well as remote assets. Contact us at info@inductosense.com to discuss your application and request a quote.



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