

Woodpecker WP632AM-R Portable Electric Tapping Detector

Traditionally coin tapping with a small hammer is used to detect disbond of honeycomb sandwich materials. Conventional manual coin tapping method requires high-level of professional skills that take a long time to acquire, in order to accurately detect disbond in honeycomb sandwich materials. Because conventional method relies on the human sense, it is difficult to inspect in a noisy environment and is impossible to obtain continuous accuracy over a long period. The fundamental problem with the conventional manual coin tapping method is that it is not quantitative.

Woodpecker WP632AM-R portable electric tapping detector solves problems with the conventional coin tapping. The WP632AM-R realized electric tapping by employing a central processing unit (CPU) which comparatively evaluate the output of a force sensor attached to the hammer unit. The quantified inspection results are indicated with LEDs and numerical values in built-in display. The WP632AM also allows transferring of inspected results to computer for detail analysis and for record.



The WP632AM-R is compact and lightweight allowing single handed operation and significantly reduces time required for inspection with high accuracy.

The WP632AM-R has been recognized as authorized NDT equipment by Airbus and Bombardier Aerospace. The WP632AM-R is also codified with the NATO Stock Number 6635-99-282-4319.

Applications

- Detection of disbond/damages/moisture in **honeycomb sandwich materials**
- Detection of disbond in **composite materials, tiles, clad steel, coatings**, etc.
- Detection of disbond of **joints in composite structures** such as the helicopter blades
- Location of **beams** in walls
- Detection of **boundaries** between different materials
- Detection of **dryness** (hardening) of bonding agents, etc.
- Comparison and evaluation of **surface hardness** (elasticity) of various plates
- Detection of the **unfilled** area within foamed sandwich panels



Specifications

Dimensions (H x W x L): 86 mm x 46 mm x 280 mm (3.4" x 1.8" x 11.0"); **Weight:** 350 g (0.8 lb) (excluding batteries); **Power Source:** Four AA batteries; **Power Consumption:** 2.4 W; **Battery Life:** Approx. 4 hours (with continuous usage)



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