



**ACOUSTIC  
CONTROL  
SYSTEMS**

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# A1610 BondVisor

Acoustic impedance flow detector for quality assessment of bounded and laminated components and variety of composite materials



- Couplant-free operation with durable dry-contact transducers
- High detection capability and spatial resolution in the inspection range, from 0.15 to 13 mm
- Extra-light and compact electronic unit for comfortable working in field conditions
- Easy instrument operation and legible interpretation of the inspection results



## Specification:

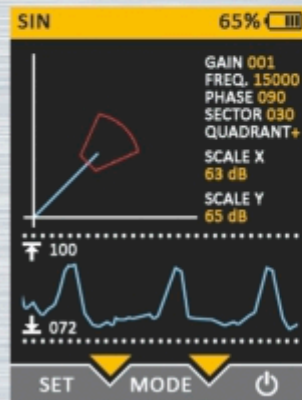
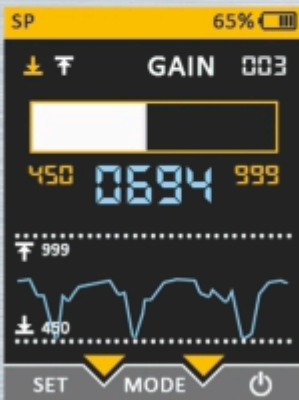
Parameter	Value / Description
Measurement principle	Mechanical Impedance Analysis (MIA)
Inspection range by two MIA transducers	0.15 mm to 13 mm / 0.006 to 0.5 inches (depending on material properties)
Flaw detection capability	For laminated components: > 8 mm / 0.3 inch For metal alloy bondings: > 0.5 mm / 0.02 inch with the defect sizing inaccuracy: < 25%
Transmitter type	Pulse excitation
Electronic unit dimensions	159 x 77 x 35 mm 6.3 x 3 x 1.4 inches
Weight	0.3 kg / 0.66 lbs
Display	2.4-inch color display 240x320 TFT
Battery type	3 x NiMH accu/battery with 2.700 mAh
Battery operation time	up to 20 hours
PC interface	USB (for loading user pre-sets)
Environmental conditions	Air temperature range: 10 to 50 C / 50 to 122 F Humidity: up to 98% (at 20 C)

## The instrument is applicable for testing:

- Fiber-laminate materials/multilayered laminates
- Laminate-honeycomb bonding
- Laminate-metal bonding
- Metal-metal bonding
- Metal soldering/metal-feltmetal brazing
- Foams (hard and soft)
- Wood laminates

## Possible sources of material defects:

- Impact damage by foreign objects
- Hail and lightning strikes
- Loss of strength caused by heat
- Thickness variations
- Osmosis damage of fiberglass boats



## Delivery set:

MADE IN GERMANY

Electronic unit	1
Single element MIA transducer	1
Dual element MIA transducer	1
Reference block CO-91	1
Exchangable NiMH battery	3
USB data cable	1
Flash drive with recovery	1
Power supply	1
Warranty certificate	1
Hard case	1

## Special features:

- **Rapid start:** new operators do not need extensive training
- **Easy calibration:** in-field automatic sensor calibration on the inspection object
- **Stable and reliable** operation on rough/uneven surfaces due to spring-loaded sensor design
- **Customized sensor design** for specific material combinations can be provided on a bilateral agreement basis