



# Abbeon Cal, Inc.

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## TIME2110 Ultrasonic Thickness Gauge



See a Video on this item at:  
<https://youtu.be/ay0zC9HLSqc>

### Features:

Time Group ultrasonic thickness gauges measure the thickness of ultrasonic wave well-conductive materials with parallel top and bottom surfaces. It measures the thickness of both metal (steel, aluminum, titanium, etc.) and nonmetal (plastics, ceramics, glass, etc.) parts. They are commonly used to measure (remaining) wall thickness of pipes and pressure vessels.

The display is mm/inch selectable. Automatic calibration. Built-in test block.

### Specifications:

Display resolution	0.1mm / 0.001 inch
Material velocity range	1000-9999 meters/second (0.039-0.3937 in/ $\mu$ s)
Preset sound velocities	5 materials
Tolerance	$\pm(1\%H+0.1)$ mm, H=actual thickness
Memory	10 readings
Low battery indicator	
Operating temperature	-10° to 60°C
Power source	2×1.5V AA batteries, 250 working hrs
Weight	250g (including batteries)
Dimensions	126×68×23mm (5×2.7×0.9 inch)

Probe (transducer) specifications:

Probes	Frequency	Measuring range (steel)	Min. Ø	Min. pipe size
5P Ø 10	5MHz	0.047"-8.858" (1.2-225mm)	0.5" /12mm	Ø0.8"×0.12" (Ø 20×3mm)
5P Ø 10/90°	5MHz	0.047"-8.858" (1.2-225mm)	0.5"/12mm	Ø0.8"×0.16" (Ø 20×4mm)
SZ2.5P	2.5MHz	0.118"-11.81" (3-300mm)	0.6"/14mm	NA
7P Ø 6	7MHz	0.030"-2.362" (0.75-60mm)	0.3"/7.5mm	Ø0.6"×0.08" (Ø 15×2mm)

TIME2110 can be used in, but not limited to the following industries:

- Machine tool industry
- Car spare parts, forklift truck and engine industry
- Aviation and space industry
- Universities and institutes
- Spare parts of spinning-machine: gauze-leading wheel and all kinds of core-shafts
- Printing machines & material, plate-making machine (PS printing plate), aluminum foil
- Hydraulic instruments and pressure vessels
- Pottery products
- Petroleum machine and parts
- Machines for food, oil and beer
- Machines of light industry
- Papermaking machines
- Close casting, forging
- Steel and powder metallurgy industry
- Electronic instruments, electric control equipments, communication equipments
- Manufacturing of motors
- Manufacturing of batteries
- Machines in pharmaceutical industry

**Standard accessories:**

Calibration certificate  
 Main unit  
 Probe 5P Ø 10  
 2×1.5V AA batteries  
 Instruction manual  
 2oz coupling paste  
 Carrying case

**Optional accessories:**

Probe 5P Ø 10/90° for low clearance  
 Probe SZ2.5P for thick, rough parts  
 Probe 7P Ø 6 for thin parts  
 Coupling paste



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