

Ultrasonic Thickness Gauge TIME®2190 with A/B scan



Application

TIME®2190 is the latest high-end ultrasonic thickness gauge developed by TIME Group Inc. It adopts pulse reflection principle, that is, the transducer sends ultrasonic pulses to travel through the test object and receives the reflection pulse from the backwall of the object. TIME2190 can nondestructively monitor the thickness of almost any material like metals, plastics, composites, fiberglass, ceramics, and glass with A scan/B scan. It is used to test the wall thickness and corrosion of various kinds of plates, pipes, boilers, vessels across industries like metallurgy, shipbuilding, machinery, chemical, aerospace, power, automotive, oil and gas, manufacturing and others.

Features

A-scan waveform can be displayed for echo analysis and measurement of complex workpiece;
 Compatible with many types of transducers, both single and dual element transducers;
 Users can set blanks to shield aftershocks or clutter;
 Echo-echo measures the true metal thickness with ignoring the thickness of coating layer.
 Thru-coat technology measures metal and nonmetallic coating thickness.
 Signal auto-amplification function (centered display of the detected echo);
 Adjustable voltage variable pulse width square wave pulse generator;
 Single value B-scan display function;
 Users can turn on fast measurement mode up to 20 times per second;
 Alarm function allows users to set the upper and lower limits of the alarm;
 Differential, maximum and minimum display mode;
 Store up to 500,000 measured values and waveforms.

Parameter:

Measuring range	0.25~500mm
Display resolution	0.001 mm, 0.01 mm or 0.1 mm
Sound velocity range	508 m/s~18699m/s
Repeatability	5M probe and above: 0.03mm 2M probe and below: 0.1mm
Display screen	Color TFT LCD, 320x240 pixels
Gain range	0-99dB, 1dB step
Pulse Generator	Adjustable Square Wave Pulse Generator
Emission voltage	60V, 110V, 150V, 200V optional
Emission pulse width	varies with transducer frequency
Frequency range	0.5 Mhz~20Mhz
Measurement rate	standard (4Hz), fast (20Hz)

FOCUS IN MATERIAL TEST

KASONTTEST®

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