

DANATRONICS ULTRASONIC THICKNESS GAGES... WE MEASURE UP!



Danatronics introduces the first ever hand held ultrasonic precision thickness gages with **COLOR** A-Scan. The UPG-07DLCW is a hand held ultrasonic precision thickness gage designed to non-destructively measure most engineering materials with the greatest thickness range. So if you are measuring coil steel, fiberglass thickness on boats, titanium golf club heads, plastic bottles or even rubber tires . . . *put us to test, we measure up.*

UNPRECEDENTED FEATURES INCLUDING:

- .0001 Resolution
- Live color A-Scan
- Vibration and color change on alarm
- Stored and recall of setups
- 30 Mhz. bandwidth
- Squarewave pulser
- Zoom auto tracking
- 100 K reading datalogger
- Multiple modes for challenging applications
- Gain, range and blanking adjustments
- Available in multiple models

For more information, call us at **978-777-0081** or email **sales@danatronics.com** or visit **www.danatronics.com** to arrange a demonstration.

The UPG-07 series is also available in multiple models with either monochrome or color from basic to fully loaded. All gages within a family are field upgradeable so if you need to turn on the B-Scan or datalogger in the future – *it is all right there even without the use of a computer.*



Size: 5" (127 mm) (L) x 3" (76.2 mm) (W) x 1.25" (31.75 mm) (H)
Weight: 8 OZ (.23 kg)
Thickness range: 0.004 - 20 inches (0.10 mm - 508 mm), depending on material, temperature and transducer selection
Material velocity calibration range: 0.200-0.7362 in/μsec. (0.508-18.699 mm/μsec.)
Temperature: Gage Operating: -4° F to 122° F (-20° C to 50° C)
Surface temperature of material: Depending on probe used, from -5° F to 1000° F (-20° C to 537° C)
Battery life: Color display up to 40 hours (15 hours with backlight on) Monochrome up to 200 hours (40 hours with backlight on)
Battery type: 2 "AA" Alkaline
Display: Color 220 X 170 Graphics Color TFT with Live Color Waveform Monochrome 64 X 128 Graphic Display
Information displays: LOS, min, max, large reading while displaying min at the same time, velocity, zero, calibration, units, freeze, unfreeze, % battery life remaining, gain - low, std, high, echo-to-echo symbol
Resolution: 0.0001" (0.001 mm), 0.001" (0.01mm)
Probe recognition: Via pick list from a menu
Delay line zero measurement: Auto at power up with listed numeric value Ideal for correcting delay line wear/curvature and for transducer acoustic drift at elevated temperatures
Stored Setups: Ability to store up to 30 custom set ups to retain valuable parameter settings such as sound velocity, gain, slope, range
Modes of Measurement: Class 1, main bang to first back wall echo Class 2, Delay line (interface echo) to first back echo Class 3, Echo to Echo following an interface echo from a delay line or water column
Package: Custom, splash-proof, high-impact plastic with rubber, illuminating keypad for go/no-go testing
Bandwidth: 0.5-30 MHz (-3dB)
Pulsar: Square Wave
Units: English/Metric/Microseconds
Languages: English, German, French, Spanish, Italian, Czech, Finnish, others
WaveForm: Live Color Waveform with Dynamic color change on alarm, large thickness reading. Live Monochrome waveform. See chart for included features by model.

Rectify: RF, Full Wave, Half Wave+, Half Wave -
Blanking: Main Bang Blank and Blank After First Received Echo
Gain: Auto or Manual in 1 dB steps for varying test conditions
Time Dependent Gain: adjust for slope and gain level as a function of time
B-Scan: Cross sectional representation of test piece
Measurement rate: 4/sec and 20/sec in fast mode
Differential Mode: Displays the difference from the actual thickness measurement and a user entered reference value
Alarms: Minimum/Maximum depth, vibralarm (vibration on alarm-patent pending), beeps and display flashes as well as keypad illumination and dynamic waveform color change
Illuminating keypad: F1 = Red, F2 = Yellow and F3 = Green for easy, go/no-go testing
Ergonomics: User selectable lefty or righty display changes via keypad (Patent Pending)
Backlight: Light Emitting Diode, On/Off or Auto On based on valid readings or last key press
Shut off: Auto, time out (after 1-31 minutes user programmable after no reading, L.O.S. or no key press or "never")
Scan mode: Simultaneously Displays minimum or maximum thickness value at 20 measurements per second (ideal for tracking the minimum depth)
Protective Pouch: Custom molded pouch with wrist strap for either left-handed or right-handed operators.
Shipping case: Hard plastic with high-density molded cut out for all accessories
Freeze mode: Freezes display (ideal for high temp. measurements)
Hold mode: Holds display to retain last thickness reading in reverse video display
Standard UPG-07 series includes: Ultrasonic thickness gage, transducer (less than 10 Mhz with cable), operational manual, couplant, transport case, data XL interface program.
Warranty: Limited 2 year warranty on parts and labor

MADE IN USA

Feature	UPG-07B	UPG-07	UPG-07DL	UPG-07DL W	UPG-07C	UPG-07 CW	UPG-07DL CW
Display type M=monochrom, C=Color	M	M	M	M	C	C	C
thickness range	.004-20"	.004-20"	.004-20"	.004-20"	.004-20"	.004-20"	.004-20"
Scan Mode	20 Hz.	20 Hz.	20 Hz.	20 Hz.	20 Hz.	20 Hz.	20 Hz.
Hold Mode	yes	yes	yes	yes	yes	yes	yes
Freeze	yes	yes	yes	yes	yes	yes	yes
Illuminating keypad	yes	yes	yes	yes	yes	yes	yes
Units	in/mm/μsec	in/mm/μsec	in/mm/μsec	in/mm/μsec	in/mm/μsec	in/mm/μsec	in/mm/μsec
Gain	no	yes	yes	yes	yes	yes	yes
Differential	no	yes	yes	yes	yes	yes	yes
Alarms (with vibrate)	yes less vibrate	yes	yes	yes	yes	yes	yes
B-Scan	no	option	yes	yes	no	option	yes
A-Scan	no	option	option	yes	no	option	yes
Datalogger	no	option	yes	yes	no	option	yes
Carrying pouch	option	option	yes	yes	option	yes	yes
Main bang blanking	no	option	option	yes	no	yes	yes
Interface blanking	no	option	option	yes	no	yes	yes
Stored setups	no	yes	yes	yes	yes	yes	yes