

# CAN YOUR ULTRASONIC THICKNESS GAGE DO THIS?

- VIBRATE THE GAGE BASED ON AN ALARM CONDITION
- ILLUMINATE THE KEYPAD ON ALARM CONDITION
- INFORM THE OPERATOR WHEN TO REPLACE THE TRANSDUCER



## We didn't Think So.

With more than 60 years of world-wide experience in ultrasonic designs, Danatronics is pleased to introduce our first line of portable, digital, hand-held ultrasonic thickness gages; the EHC-09DL, EHC-09 and EHC-09B. The EHC series of ultrasonic thickness gages are specifically designed to measure the remaining wall thickness of primarily steel structures.

### EHC-09B

The EHC-09B is our basic, most economical model ultrasonic thickness gage designed to make reliable, accurate thickness readings on mostly steel structures with access to only one side. Packaged in the same custom molded high density plastic case with rubber keypad as our more sophisticated models, our gage offers a simple user interface, can be used with all the transducers of the EHC-09 and Datalogger version and is easily upgraded in the field to the EHC-09 or EHC-09DL, no need to return the unit to the factory.

### EHC-09

The EHC-09 is our mid-range model combining the most commonly used features in a thickness gage not requiring a datalogger. With the EHC-09 you can increase or decrease the gain, vibrate and illuminate the keypad on alarm conditions, and with the transducer attendant the customer is informed when to replace the transducer. We offer a simple, field upgradeable path to add, echo to echo, B-scan and the 50,000 thickness datalogger.

### EHC-09DL

The EHC-09DL is the top of the line model offering all the same features of the EHC-09 plus our flexible datalogger, B-Scan and Echo to Echo. It also includes a custom molded pouch with belt clip and elastic strap to easily hold the unit in either the left or right hand.

*See product differentiation chart for more details.*

## Patent Pending Features:

- **Transducer attendant**  
informs operator when to replace transducer
- **Illuminating keypad with vibrating alarm**  
for easy to view go/no-go thickness readings tied to color; red = alarm, yellow = caution, green = good
- **Lefty/Righty user interface**  
user programmable graphics display



For more information, call us at  
**978-777-0081** or email  
**sales@danatronics.com**  
or visit **www.danatronics.com/ehc-09**  
to arrange a demonstration.



**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:** 0.008 - 20 inches (.20 mm - 508 mm), depending on material, temperature and transducer selection

**Material Velocity Calibration Range:** 0.0200 - 0.7362 in/ $\mu$ S (0.508 - 18.699 mm/ $\mu$ S)

**Temperature:** Gage Operating: -4° F to 122° F (-20° C to 50° C)  
Surface temperature of material: Depending on probe use, from -5° F to 1000° F (-20° C to 537° C)

**Battery life:** Up to 200 hours (40 Hours with backlight on)

**Battery type:** 2 "AA" Alkaline

**Display:** 128 X 64 Graphics LCD monochrome

**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:** .001" (.01 mm), .01" (.1mm)

**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

**Package:** Custom, splash-proof, high impact plastic with rubber, illuminating keypad for go/no-go testing

**Bandwidth:** 0.5-20 MHz (-3dB)

**Units:** English/Metric/Microseconds

**Gain:** Low, Standard and High for varying test conditions

**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, beeps and display flashes as well as keypad illumination

**Illuminating keypad:** F1 = Red, F2 = Yellow and F3 = Green for easy, go/no-go testing (Patent Pending)

**Automatic probe wear indicator** (Transducer attendant): Automatically informs the operator to replace the transducer (Patent Pending)

**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 keypress

**Shut off:** Auto, time out (after X minutes user programmable after no reading, loss or no key press)

**Scan mode:** Displays minimum or maximum thickness value at 20 measurements per second (ideal for high temperature thickness reading and tracking the minimum depth alarm). Press Freeze to capture last valid minimum thickness readings prior to Loss of Signal (LOS), without reading the couplant upon lifting probe off test piece

**Carrying case:** Custom molded pouch with wrist strap for either lefty or righty operators (Optional)

**Shipping case:** Hard Plastic with high density molded cut out for all accessories (optional)

**Freeze mode:** Freezes display

**Hold mode:** Holds display to retain last thickness reading in reverse video display

**Standard EHC-09 includes:** Ultrasonic thickness gage, DZ-537 potted, 5 MHz 0.375 inch diameter, operational manual, cable, couplant

**Warranty:** Limited 2 year warranty on parts and labor

Item	Specification	EHC-09DL	EHC-09	EHC-09B
Thickness range:	0.008 - 20 inches (.20 mm - 508 mm)	X	X	X
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	X	X	X
Scan mode:	Displays minimum or maximum thickness value at 20 measurements per second	X	X	X
Hold mode:	Holds display to retain last thickness reading with reverse video display	X	X	X
Freeze mode:	Freezes display	X	X	X
Units:	Inches/Millimeters/Microseconds	X	X	X
Gain:	Low, Standard or High for varying test conditions	X	X	O
Differential Mode:	Displays the difference from the actual thickness measurement and a user entered reference value	X	X	O
Alarms:	Minimum/Maximum depth, vibralarm, beeps and display flashes as well as keypad illumination and vibration	X	X	O
Illuminating keypad	F1 = Red, F2 = Yellow and F3 = Green for easy, go/no-go testing (Patent Pending)	X	X	O
Automatic probe wear indicator:	Automatically informs the operator to replace the transducer (Patent Pending)	X	X	O
Echo to Echo:	Measures the metal thickness only (ignore paint and coatings)	X	O	O
Non-Encoded B-Scan	Displays a cross section of the test piece	X	O	O
Data Logger Version:	Upgrade to Data Logger Version	X	O	O
Carrying Pouch:	Custom molded with belt clip and elastic strap	X	O	O
<i>All software options are field upgradeable, no need to return the unit to the factory</i>				