

DANATRONICS ECHO 9 - Specifications

Size: Length 7.25" x Width 4.00" x Height 2.00" (184mm x 101.6mm x 50.8mm)

Weight: 1.15 lbs (.52 kg) with internal Li-Ion battery, 1.0 lb. (.45 kg) with optional Alkaline tray including 3 AA batteries

Display: 3.5" high resolution color display, 320 x 240 pixels (1/4 VGA), sunlight readable, including multiple color choices

Backlight: Light Emitting Diode (LED) backlight. Includes variable light intensity, indoor and outdoor modes

Temperature (Gage operating): -4 to 122F (-20 to 50C)

Package: Designed for IP67 rating, custom, splash-proof, high impact plastic with illuminating rubber keypad for go/no-go testing

Transducer Connector Type: Lemo 00 (2qty)

Bandwidth: 0.5-30 Mhz (-3dB)

Measurement Rate: 4 Hz or 25 Hz.

Pulser: 150V, Square Wave

Range: Thickness range depends on gage type, probe selection and material conditions. Typical range in corrosion mode, .020"-23" (.508 - 584 mm)

Calibration: Cal zero, Cal velocity, Two-point calibration or Auto Calibration performs a two-point calibration using a 5-step test block

Material Velocity Range: .0200 in/usec-.7362 in/ uS (0.508-18.699 mm/ uS)

Batteries: Standard 3.7 V Li Ion internally rechargeable battery (16-20 hours) or optional alkaline tray for 3 AA batteries (8-12 hours)

Data XL: Interface program to send and receive stored readings, latest firmware and application set up files as two way communication from ECHO to computer

USB: USB 2.0

Stored Setups: Storage and recall of calibration and set up files

Memory: Internal memory standard on all models. For Datalogger models 2GB micro SD card standard and expandable up to 32GB

Gain: Low, Standard and High for gages without waveform. 20-94 db in 1 db increments

Zoom: Automatically centers echos in the center of the display independent of material thickness

Units: English, Metric, Microseconds

Temperature correction: Software to correct for varying sound speed as a function of entered temperature

DATA SHEETS

Languages: English, French, German, Spanish, Italian, Russian, Czech, Finnish, Chinese, Japanese, Hungarian

Fast Min/Max: Displays minimum, maximum or both simultaneously with actual thickness at 25 Hz.

Alarms: Gage vibrates and beeps. Display changes color based on alarm condition

Transducers: Single, dual, delay lines, contact, immersion

Measurement Types: Main bang to first backwall echo, echo to echo and velocity mode (displays acoustic sound speed based on entered thickness)

Freeze Mode: Direct access to freeze display (ideal for high temperature applications)

Hold Mode: Holds display to retain last thickness reading

Warranty: Limited 2 year warranty under normal use on parts and labor for gage. Optional Dan-A-Care to add up to 3 more years

Shut off: selectable auto shut off 1-31 minutes or never shut off

Differential Mode: Displays the difference from actual thickness measurement in absolute or percentage of a user entered reference value

Resolution: .001" or .010" as corrosion gage and .001" or .0001" in Precision mode

Transport case: Hard Plastic with high density molded foam cut out for gage and most accessories

Certifications: CE certified, RHOS compliant, designed for IP67

Accessory Mount: ECHO 9 includes a 1/4x20 standard connection point on the back of the unit to allow for a multitude of accessories including a magnetic pipe attachment and a Gorilla Pod

Standard Inclusions: ECHO 9 series ultrasonic thickness gage, DKS-537, 5MHz, 0.375 inch diameter transducer with potted cable, 2oz bottle of couplant, operation manual, Data XL interface program, USB cable, Charger Adapter, Transport Case *A transducer is included with each model. Contact Danatronics for details

Available Software Options: Datalogger with B-scan, Live waveform, Precision mode, Oxide scale, Coating thickness

Hardware Options: EZ Scan Bscan Encoder, Bluetooth, Alkaline battery tray, rubber boot

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