



# DAKOTA MX2-DL THICKNESS GAUGE

The Dakota MX2-DL Corrosion Thickness Gauge has a large, easy to read display and provides users with A and B-Scan options for accurate interpretation of measurements.

## SPECIFICATIONS

## **PHYSICAL**

## Weight:

13.5 ounces (with batteries).

#### Size:

2.5 W x 6.5 H x 1.24 D inches (63.5 W x 165 H x 31.5 D mm).

## **Operating Temperature:**

-14° to 140°F (-10° to 60°C).

#### Keyboard:

Membrane switch with twelve tactile keys.

#### Case:

Extruded aluminum body with nickel-plated aluminum end caps (gasket sealed).

#### Display:

1/8in VGA grayscale display (240 x 160 pixels); viewable area 2.4 x 1.8in (62 x 5.7mm); EL backlit (on/off/auto invert).

## **ULTRASONIC SPECIFICATIONS**

#### **Measurement Modes:**

Pulse-Echo (flaws, pits).

Echo-Echo (thru-paint).

#### Pulser:

Square wave pulser with adjustable pulse width (spike, thin, wide).

#### Receiver:

Manual or AGC gain control with 50dB range, depending on mode selected.

#### Timina

Precision TCXO timing with single shot 100MHz 8 bit ultra low power digitizer.

Pulse Repetition Frequency - 250Hz.

### **DISPLAY**

## **Display Views:**

**A-Scan:** Rectified +/- (flaw view) RF (full waveform view). Refresh rate at 25Hz.

**B-Scan:** Time based cross section view. Display speed variable (10 to 200 readings per second).

**Large Digits:** Standard thickness view; Digit Height: 0.700 in (17.78mm).

**Scan Bar:** Speed 10Hz. Viewable in B-Scan and Large Digit views.

Bar Graph: Indicates stability of

measurement.

#### POWER SOURCE

Line power: USB to PC or power outlet.

#### **Batteries:**

Three AA cells. Alkaline - 35 hrs, Nicad - 10 hrs and NI-MH - 35hrs.

Auto power off if idle 5 minutes.

Battery status icon.

#### **MEASURING**

#### Range

**Pulse-Echo Mode (P-E) -** (Pit & Flaw Detection) measures from 0.025 to 100 ft. (0.63 to 30.48 M).

**Echo-Echo Mode (E-E)** - (Thru Paint & Coatings) measures from 0.100 to 6.0 in (2.54 to 152.4mm). Range will vary +/-depending on the coating.

Resolution: +/- .001 inches (0.01mm).

#### **Velocity Range:**

0.0122 to 0.7300 inches/µs

309.88 to 18542 meters/sec

Single and Two point calibration option, or selection of basic material types.

Units: English & Metric

## TRANSDUCER

#### **Transducer Types:**

Dual Element (1 to 10MHz).

Locking quick disconnect LEMO "00" connectors.

Standard 4 foot cable.

Custom transducers and cable lengths available for special applications.

#### **MEMORY**

## Data Structure:

Grid (alpha numeric)

## Screen Capture:

Bitmap graphic capture for quick documentation (.tif ).

**OBSTRUCT** to indicate inaccessible locations.

### Capacity:

4Gb internal memory.

### **Data Output:**

USB-C 1.1 PC & OSX connectivity.

## **FEATURES**

#### Setups:

64 custom user-definable setups; Factory setups can also be edited by the user.

#### Selectable Transducers:

Selectable transducer types with built-in dual path error correction for improved linearity.

#### Alarm Mode:

Set Hi and Lo tolerances with audible beeper and visual LEDs.

#### Scan Mode:

Takes 250 readings per second and displays the minimum reading found when the transducer is removed.

## CERTIFICATION

Factory calibration traceable to NIST & MILSTD- 45662A.

## **WARRANTY**

2 year limited

## REPLACEMENT

MX2-DL replaces MVX & CG70ABDL

MADE IN THE USA

