# QNE DAKOTA ULTRASONICS



SOUND SOLUTIONS

# **MMX-7 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:

150 volt square wave pulser.

#### Receiver:

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

#### Timing:

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

# Display

# **Display Views:**

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

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

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

**Bar Graph:** Indicates stability of measurement. Viewable in B-Scan and Large Digit views.

# **Power Source**

Line Power: USB-C 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 in. to 100 ft. (0.63 mm to 30.48 M).

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

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

#### 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 10 MHz).

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:

4 Gb internal SD card.

# **Data Output:**

USB-C 1.1 PC & OSX connectivity.

#### **Features:**

#### Setups:

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

#### 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 & MIL-STD-45662A.

# Warranty

2 year limited



# MADE IN THE USA







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