Direct velocity adjustment

① Press menu

② Go to "Velocity"

③ Confirm the option

④ Change the value. Press the Q to see the velocity chart

⑤ Confirm the value

Select material

Confirm
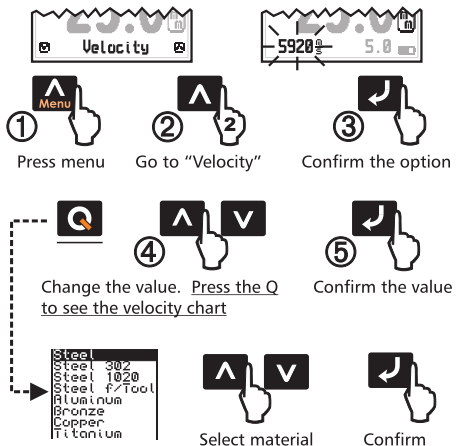
Suggestions

Use enough couplant

Do not store with batteries for long periods of time

Do not strangle and/or pull transducer cables

Don't clean the unit with solvents or abrasive materials

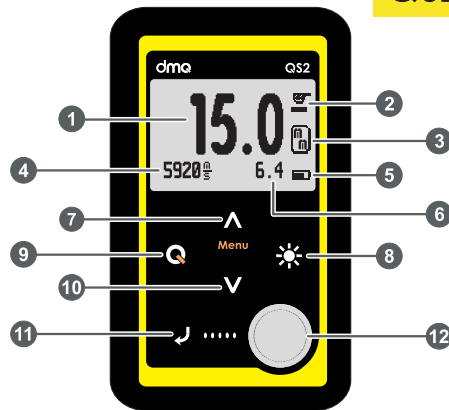Don't expose to direct sunlight over long periods of time

info@si-instruments.com.au
08 8352 5511

Technical specifications

Measuring principle	Pulse-Echo
Measuring range	1,0 a 500,0 mm
Units	Millimeters / Inches
Velocity range	100 a 19999m/s
	3.937 a 787.3 in/ms
Resolution	0,1mm / 0,01in
Calibration block	6,4 mm
Measuring frequency	4 Hz
Transducer frequency	5 Mhz
V-Path correction	Automatic
Battery type	2 type AAA
Battery life	100 hours
Operating temperature	-10°C a +50°C
Dimensions	69 x 115 x 28 mm
Weight	200g with batteries

Sound velocity table in m/s (in/ms)

Steel: 5920 (233.1)
Steel 304: 5660 (222.8)
Steel 304: 5752 (226.5)
Steel 347: 5740 (226.0)
Steel 1020: 5890 (231.9)
Steel 4340: 5850 (230.3)
Steel for Tools: 5870 (231.1)
Aluminum: 6320 (248.8)

Copper: 4660 (183.5)
Bronze: 3500 (137.8)
Brass: 4430 (174.4)
Titanium: 6100 (240.2)
PVC: 2395 (94.3)
Plexiglass: 2730 (107.5)
Nylon: 2700 (106.3)
Glass: 5800 (228.4)

Ultrasonic wall thickness gauge
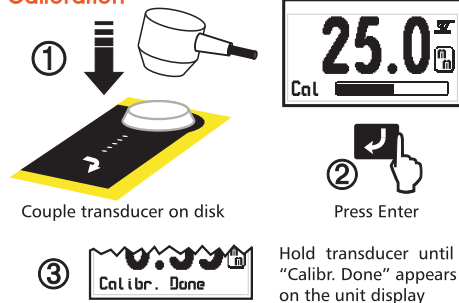
QS2

Display

1: Measure screen
2: Coupling indicator
3: Unit
4: Sound velocity
5: Battery level
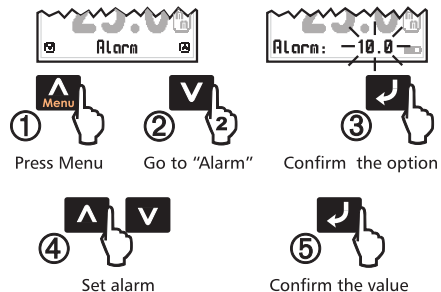6: Minimum value

Keyboard

7: Up / Menu button
8: Backlight button
9: Power button
10: Down button
11: Calibrate / Enter button
12: Calibration button

Calibration

① Couple transducer on disk

25.0
Cal

② Press Enter

③ Calibr. Done

Hold transducer until "Calibr. Done" appears on the unit display

Set Alarm (minimum)

Alarm

① Press Menu　② Go to "Alarm"　③ Confirm the option

Alarm: −10.0

④ Set alarm　⑤ Confirm the value

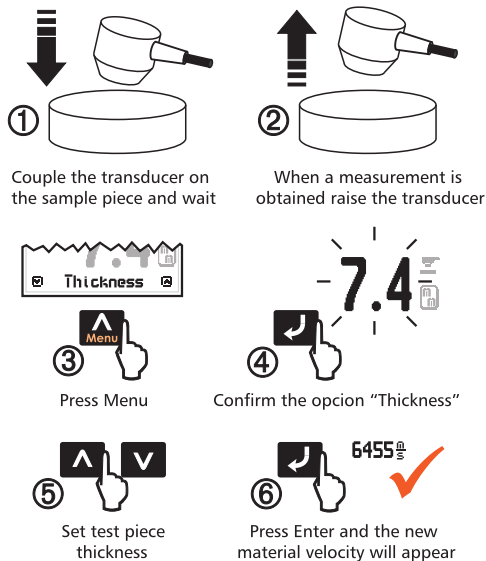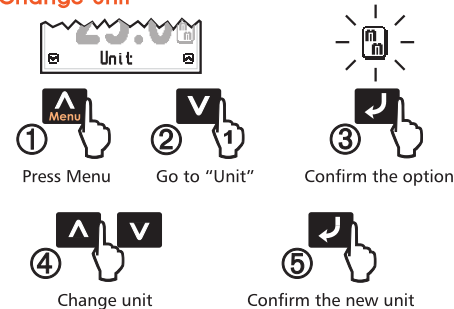## Calculate velocity based on thickness

This option allows you to calculate the sound propagation velocity of a test piece with a known thickness.

① Couple the transducer on the sample piece and wait

② When a measurement is obtained raise the transducer

Thickness

③ Press Menu

7.4

④ Confirm the opcion "Thickness"

⑤ Set test piece thickness

6455

⑥ Press Enter and the new material velocity will appear

Change unit

Unit

① Press Menu　② Go to "Unit"　③ Confirm the option

④ Change unit　⑤ Confirm the new unit

Adjust Gain

Gain

① Press Menu　② Go to "Gain"　③ Confirm the option

Gain: −18

④ Change gain　⑤ Confirm the new value