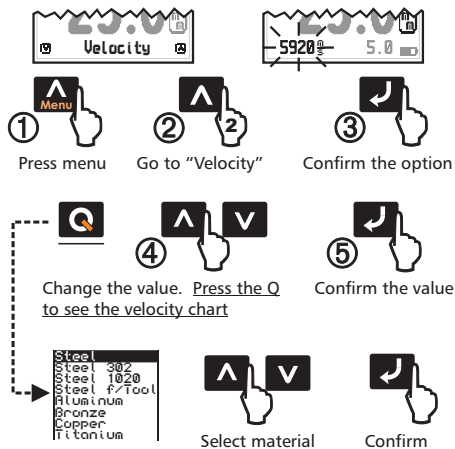


Ultrasonic wall thickness gauge

Direct velocity adjustment



Technical specifications

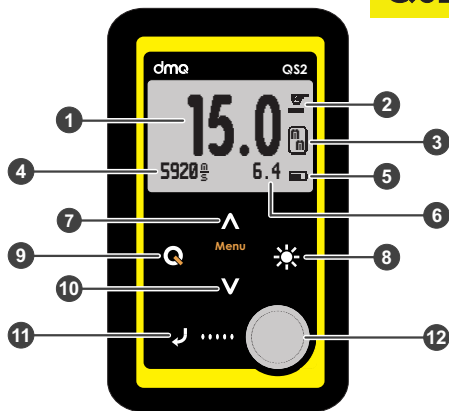
Measuring principle	Pulse-Echo
Measuring range	1,0 a 500,0 mm
Units	Millimeters / Inches
Velocity range	100 a 19999m/s 3.937 a 787.3 in/m/s
Resolution	0,1mm / 0,01in
Calibration block	6,4 mm
Measuring frequency	4 Hz
Transducer frequency	5 Mhz
V-Path correction	Automatic
Battery type	2 type AAA
Battery 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)	Copper: 4660 (183.5)
Steel 304: 5660 (222.8)	Bronze: 3500 (137.8)
Steel 304: 5752 (226.5)	Brass: 4430 (174.4)
Steel 347: 5740 (226.0)	Titanium: 6100 (240.2)
Steel 1020: 5890 (231.9)	PVC: 2395 (94.3)
Steel 4340: 5850 (230.3)	Plexiglass: 2730 (107.5)
Steel for Tools: 5870 (231.1)	Nylon: 2700 (106.3)
Aluminum: 6320 (248.8)	Glass: 5800 (228.4)

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



Display

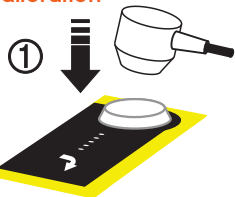
- 1: Measure screen
- 2: Coupling indicator
- 3: Unit
- 4: Sound velocity
- 5: Battery level
- 6: Minimum value

Keyboard

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



## Calibration



Couple transducer on disk



Press Enter



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

## Set Alarm (minimum)



Press Menu



Go to "Alarm"



Confirm the option



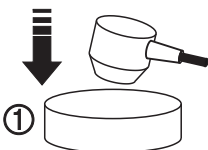
Set alarm



Confirm the value

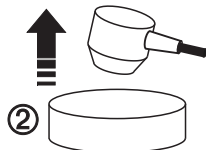
## Calculate velocity based on thickness

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



Press Menu



Confirm the option "Thickness"



Set test piece thickness



Press Enter and the new material velocity will appear

## Change unit



Press Menu



Go to "Unit"



Confirm the option



Change unit



Confirm the new unit

## Adjust Gain



Press Menu



Go to "Gain"



Confirm the option



Change gain



Confirm the new value