

# T-Gage V Series

The T-Gage V series offers the latest technologies that will make inspection easier and each model has been built to perform in the roughest of industry conditions. The suite of gauges come with monochrome displays as standard to enhance the user experience functionality (W). Simple upgrade options are available throughout the life of your gauge.

## T-Gage VB

The T-Gage VB is a basic variable velocity gauge with probe and is the most economical model designed to make reliable, accurate thickness readings; primarily on steel structures with access to only one side. Packaged in custom moulded high density casing with a rubber keypad, this gauge offers the end user a simple deliver datalogging function.

## T-Gage V

As a mid-range model, the T-Gage V offers the most popular features including echo-to-echo (E-E). These include increase/decrease in gain; vibrate and illuminate the keypad in alarm conditions and with the "transducer attendant" – the end upgradeable options include A/B-Scan capability and the data logging software, Data XLS.

## T-Gage VDL

The T-Gage VDL is the top of the range model offering all logger taking up to 50,000 readings, B-Scan and Echo-to-Echo functions. It also includes the Data Management Software, customised pouch belt clip and elasticated band.

### Further model options include:

- T-Gage V C: E-E, Colour Display
- T-Gage V W: E-E, A-Scan
- T-Gage V CW: E-E, Colour Display, A-Scan
- T-Gage V DLC: E-E, Datalogger, Colour Display
- T-Gage V DLW: E-E, Datalogger, A-Scan
- T-Gage V DLCW: E-E, A/B Scan, Datalogger

C = Colour Display W = A/B Scan



# Specifications

FEATURES		T-Gage VB	T-Gage V	T-Gage VDL
Thickness Range	0.20 mm – 508mm (0.008 – 20 inches) (dependant on material temperature and transducer selection).	●	●	●
Delay Line Zero Measurement	Auto at power up with listed numeric value. Ideal for correcting delay line wear/curvature & for transducer acoustic drift at elevated temperatures.	●	●	●
Differential Mode	Displays the difference from the actual thickness measurement and a user entered reference value.			
Scan Mode	Displays minimum or maximum thickness value at 20 measurements per second.	●	●	●
Hold Mode	Holds display to retain last thickness reading with reverse video display.	●	●	●
Freeze Mode	Freezes display.	●	●	●
Units	Inches/Millimetres/Microseconds.	●	●	●
Gain	Low, Standard or High for varying test conditions.	●	●	●
Differential Mode	Displays the difference from the actual thickness measurement and a user set reference value.	–	●	●
Alarms	Maximum depth, vibralarm, beeps and display flashes as well as keypad illumination.	–	●	●
Illuminating Keypad	F1 = Red, F2 = Yellow and F3 = Green for easy go/no-go testing (patent pending).	–	●	●
Automatic probe wear indicator	Automatically informs the operator to replace the transducer (patent pending).	–	–	●
Echo-to-Echo	Measures the metal thickness only (ignores paint and coatings).	–	●	●
Non-Encoded B-Scan	Displays a cross section of the test piece.	–	–	●
Data XLS	Datalogging software – Upgrades available.	–	–	●

PHYSICAL	
Weight	230g (8 ounces).
Size	76.2mm x 127mm x 31.8mm (3" x 5" x 1.25").
Operating Temp	-20° to 50°C (-4° to 122°F).
Material Surface Temp	-20° to 537°C (-4° to 1000°F) Depending on probe use.
Ergonomics	User selectable left or right display change via keypad (patent pending).
Backlight	Light emitting diode. On/Off or Auto On, based on valid reading being taken or last key press.
Shut Off	Auto time out (after X minutes user programmable after no-reading, loss or no keypress).
POWER SOURCE	
Battery Type	2 x AA alkaline.
Battery Life	Operates for 50 hours (20 hours with backlight on).
Display	128 x 64 Graphics LCD monochrome. 220 x 170 Graphic Colour TFT display.
Information Displays	LoS, min, max, large reading while displaying min at the same time, velocity, zero, calibration, units, freeze, unfreeze, % battery life remaining, gain – low, std, high, echo to echo symbol.
Resolution	0.01mm (0.001 ins).
Bandwidth	0.5 - 20 MHz (-3dB).
Measurement rate	20/sec and 4/sec in fast mode
Units	English/Metric/Microseconds
Warranty	Limited 2 year warranty on parts and labour.
Casing	Customised, splash proof (IP54), high impact plastic with rubber. Illuminated keypad for go/no-go testing.
Shipping Case	Hard plastics with high density moulded cut out for all accessories (optional)
Carrying Pouch	Custom moulded pouch with wrist strap for left or right handed operators (optional)

## T-Gage Series Kits

**Standard T-Gage V series kit includes:** UT Thickness gauge, Echo-to-Echo modeDG537 twin crystal 5Mhz 0.375"/9.52mm dia. potted probe, operator manual, cable, couplant and carrycase.

**Standard T-Gage VB series kit includes:** UT Thickness gauge, DKS-537 twin crystal 5Mhz 0.375"/9.52mm dia. potted probe, operator manual, cable, couplant and carry case.

**Standard T-Gage VDL series kit includes:** UT Thickness gauge, Echo-to-Echo modeDG537 twin crystal 5Mhz 0.375"/9.52mm dia. potted probe, operator manual, cable carry case and pouch, Data XLS, USB cable.



**Russell Fraser Sales Pty Ltd**

Unit 10 / 1-11 Burns Road, Heathcote NSW 2233 Australia

Ph: +61 2 9545 4433 Email: rfs@rfsales.com.au Website: rfsales.com.au



Simplicity Capability Reliability

Sonatest.com