



# 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 a colour display (C) can be configured, as can the additional A-Scan 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 working interface. This model is easily upgradeable in the field to deliver datalogging functions.

## 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 & illuminate the keypad on alarm conditions and with the "transducer attendant" - the end user is notified when to replace the transducer. Simple field 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 the features of the VDL together with the the flexible data 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 hand strap to easily use the unit in either hand.



## 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

**Simplicity | Capability | Reliability**

# Specifications

## PHYSICAL

**Weight:** 230 g (8 ounces)  
**Size:** 76.2 w x 127.0 h x 31.8 d mm (3" x 5" x 1.25" inches)  
**Operating Temperature:** -20° to 50°C (-4° to 122° F)  
**Material Surface Temp:** -20° to 537°C (-4° to 1000° F)  
 Depending on probe use.

## 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:** 0.01 mm (0.001 ins)  
**Probe recognition:** via pick list from menu

**Delay line zero measurement:** Auto at power up with listed numeric value. ideal for correcting delay line wear/curvature and for transducer acoustic drift at elevated temperature.

**Bandwidth:** 0.5 - 20 MHz (-3dB)  
**Measurement rate:** 4/sec and 20/sec in fast mode.  
**Gain:** Low, Standard and High for varying test conditions.  
**Units:** English/Metric/Microseconds

**Alarms:** Minimum/Maximum depth, vibralarm, beeps and display for lashes as well as keypad illumination.

**Illuminating Keypad:** F1 = Red, F2 = Yellow abd F3 == Green for easy, go/no go testing (patent pending).

**Ergonomics:** User selectable left or right display change via keypad (patent pending)

**Backlight:** Light emitting diode, On/Off or Auto On based on valid readings or last key press.

## MODES

**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 (ideal for high temperature thickness reading and tracking the minimum depth alarm). Press Freeze to capture the last valid minimum thickness readings prior to the loss of signal (LOS), without reading the couplant upon lifting the probe from the test piece.

**Freeze Mode:** Freezes Display

**Hold Mode:** Holds display to retain last thickness reading in reverse video display.

**Shut Off:** Auto. time out (after X minutes user programmable after no-reading, loss or no keypress)

**Warranty:** 1 year warranty on parts and labour.  
**Casing:** Customised, splash proof (IP54), high impact plastic with rubber. Illuminated keypad for go/no-go testing.

**Carrying Pouch:** Custom moulded pouch with belt clip, wrist strap for left or right handed operators (optional).

**Shipping Case:** Hard plastics with high density moulded cut out for all accessories (optional).

**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 V series kit includes:** UT Thickness gauge, Echo-to-Echo mode DG537 twin crystal 5Mhz 0.375"/9.52mm dia. potted probe, operator manual, cable, couplant and carrycase.

**Standard T-Gage VDL series kit includes:** UT Thickness gauge, Echo-to-Echo mode DG537 twin crystal 5Mhz 0.375"/9.52mm dia. potted probe, operator manual, cable carry case and pouch, Data XLS, USB cable.

Feature	Specification	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.	•	•	•
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	Minimum and Maximum depth, vibralarm, beeps & 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.	-	-	•

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