

# 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 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 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 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



The EZ Scan 4 is a small, single axis linear B-Scan encoder, for use with the T-Gage V DLC, with magnetic wheels and a couplant delivery system. Ideal applications include outside diameter. The scanner comes as standard with a 5Mhz dual transducer spring loaded in two directions, other transducers are also available. storage tank bottom and side walls, flat plates and pipes with a 10cm (4") or greater

# Specifications

Feature		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	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.	-	-	•

PHYSICAL	
Weight:	230g (8 ounces)
Size:	76.2mm x 127mm x 31.8mm (3" x 5" x 1.25")
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.
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 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.

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