VOGEL GERMANY
Measuring Sulutions

Ultrasonic Thickness Gauges 480130

Ultrasonic Thickness Gauge with Echo-Echo System (A+B Scan)

NEW

1. General Description

The Vogel 480130 is a visual A / B scan ultrasonic thickness gauge. It is capable of measuring the thickness of various materials with accuracy as high as ± 0.01 mm or ± 0.001 inches.

It is a Multi-Mode thickness gauge that has the ability to measure the thickness through painted or coated surfaces. This unit can measure the thickness of metallic and non-metallic materials such as steel, aluminum, titanium, plastics, ceramics, glass and any other good ultrasonic wave conductor. With the particular probe, 480130 can measure some composite materials, such as fiberglass.



Vogel Germany GmbH & Co. KG
Precision Measuring Tools and Test Instruments

Ossenpass 4
47623 Kevelaer
Germany

Phone: +49 (0)2832 9239-10
Fax: +49 (0)2832 3621
Mail: info@vogel-germany.de

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The 480130 comes with following features:





- Large colorful TFT display
- Automatic probe recognition,
- Automatic probe zero calibration
- Various optional probe from 1MHz- 10MHz
- Automatically locates the detection point if the measurement is out of the viewable display area.
- A-Scan and B-Scan Mode
- Allow user to adjust the range of GAIN, RANGE, DELAY, GATE, BLANK,

  E-BLANK in manual-measurement mode.
- Limitation setting, alarm with sound and display.
- Multi-language
- Memory of 100 files X 100 data, transfer data to PC without software, available for any windows operating systems.
- Measurement screen automatic frozen, which make it easy to analyze the data for the user.

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2. Technical Specifications

Measurement	E-E: 3.00mm～25.00mm
Resolution	0.01mm(0.001inch), 0.1mm (0.01inch)
Optional probes	E-E:D5301(5MHz), D5302 (5MHz) T-E:D5008(5MHz), D7006 (7.5MHz), D7004(10MHz), D2012 (2.5MHz) D1025 (1MHz), D5113(5MHz,High-Temp.) D1025 (1MHz)
Velocity range	1000m/s～9999m/s
Measurement	2 /s and 10/s in fast mode
Average mode	2 to 9 times average measurement
Limited setting	With Low-high indication and alarm
Measuring Units	mm / inch
Memory	Memory of 10,000 readings in 100 files
Data output	USB to PC without software
Display	320×240 TFT Color LCD
Battery	2 x AA Batteries
Operating	-20℃～+50℃
Measuring temp.	-20℃～+350℃(according to transducers)
Dimensions	133mm（L）×75mm（W）×29mm（H
Weight	0.26kg (including batteries)

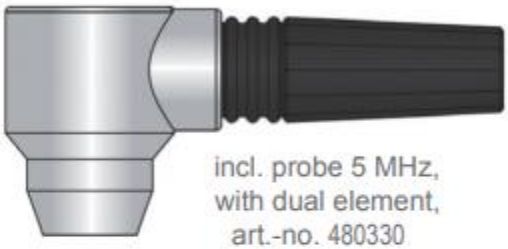
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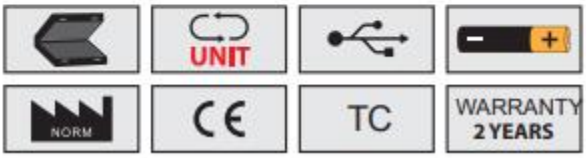
3. Scope of delivery

- Main Unit
- Echo-Echo transducer (D5302)
- 75ML Couplant
- Build-in calibration block (Thickness=4mm, Velocity = 5920m/s)
- USB Cable
- Carrying case
- Operating manual
- Calibration Certificate

More probes available on request!



incl. probe 5 MHz, with dual element, art.-no. 480330



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4.Optional transducers

Type	Freq. (MHz)	Dia. (mm)	Meas. Rang (mm)	Working Temp.	Application
D5301	5.0	10	E-E 3.0～25 T-E 1.44～200	<60℃	Used in the measurement through the coating (E-E)and normal measurement (T-E)
D1025	1.0	20	3.0～200 5.0～40 (For fiberglass)	<60℃	Used in the measurement of composite materials, such as fiberglass.
D5008	5.0	8	0.8～300	<60℃	Used in many common measurements
D7006	7.5	6	0.65～50	<60℃	Used in the measurement of thin wall thickness and small curvature surface.
D7004	10.0	4	0.65～20	<60℃	Used in the measurement of thin wall thickness and small curvature surface.
D2012	2.0	14	2.0～400	<60℃	Used in the measurement of coarse particles such as cast iron.
D5113	5.0	13	3.0～200	<350℃	Used in the thickness measurement when the temperature is less than 350℃.

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