

LiMiT

5500

Ultrasonic thickness gauge



Operating manual

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Ultrasonic thickness gauge LIMIT 5500

General information

Limit 5500 is a ultra sound thickness gauge to measure thickness of most kind of homogeneous material.

Ultrasound technology can be recommended when the object only is reached from one side. Eg. pipes, tanks, cisterns, design of glass.

Suitable materials for ultra sound technology are most metals, glass and plastics.

Conditions for accuracy measurement is that the material is homogeneous, surface is smooth and both sides are parallel.

Specification

Range		1,2 – 200 mm
Reading		0,1 mm
Probe Ø		10 mm
Accuracy	1-10	$\pm 0,4$
	10-100	$\pm 0,4 + 1\%$
	100-250	$\pm 3\%$
Operation Temperature		0 – 50 °C
Humidity		0 – 80 % RH
Battery		4 st 1,5V typ AAA
Weight		165 g
Automatic Off	After 2 minuts.	

Operation

1. On or manuell OFF. Push the Θ -button.
2. Select material code alternativ sound velocity. See below.

3. Drop a little oil, grease or similar on the material to be measured.
4. Press the probe on the material. ((●)) symbol shows on the display and confirm contact between probe and material.
5. Read the value. The display hold last value till next measurement or power off.

Select material code

1. Push the SELECT-button.
 2. Select with ▲ ▼-buttons correct material code.
 3. Push the SELECT-button again to confirm.
- Last selected code are stored for next operation.

Select velocity speed

1. Push the VEL-button.
 2. Select with ▲ ▼-buttons correct velocity speed.
 3. Push the VEL-button again to confirm.
- Last selected velocity speed are stored for next operation.

When velocity speed is unknown the velocity speed can be set by testsample with known thickness

1. Make a first measurement on the testsample.
2. Increase or decrease velocity speed as above.
3. Make a new measurement. Increase or decrease velocity speed till the value on the display is same as testsamples real thickness.

Calibration

1. Push the CAL-button.
2. Drop a little oil, grease or similar on the test block, placed on instrument right side.

3. Press the probe on the test block. ((●)) symbol confirm contact between probe and test block. The displays shows 5,0

4. Push the CAL-button again to confirm.

Calibration will be stored. It is not necessary to calibrate often. Only if suspect not correct accuracy.

Replace battery

When battery symbol shows on the display.

Remove the battery lid on backside and replace with 4 pcs 1,5 V batterys type AAA.

Material	Kod	Velocity speed m/s
Steel	cd01	5920
Stainless steel		5740
Castiron	cd 02	
Grey cast iron	cd 10	
Aluminium	cd 03	6400
Copper	cd 04	5010
Bras	cd 05	4700
Zinc	cd 06	4210
Quartz glas	cd 07	5260-6120
Polyethylene	cd 08	950
PVC	cd 09	2350
Water		1490