

DM5E Series Wall Thickness Gauge Brand: WAY GATE TECHNOLOGIES

Code: DM5E Basic



The DM5E Series Ultrasonic Wall Thickness Gauge enables you to accomplish a large number of demanding tasks, especially with remaining wall thickness measurements on components subjected to corrosion and erosion. These gauges are smart, simple-to-use ultrasonic thickness gauges that offer big performance in a small lightweight package. Their compact size and ergonomic shape provide comfortable one-hand use. Equipment designed to monitor corrosion (deterioration of metals due to chemical reactions) in equipment such as pipes or tanks in the industry.

Features:

Range of measurement displays:

Normal: the thickness value appears as large digits in the centre of the display

MIN Scan: a minimum thickness scan that allows the user to run the probe over the wall surface. After the evaluation period, the minimum material thickness measured is displayed

MAX Scan: a maximum thickness scan is exactly the same as a MIN Scan apart from the fact that the maximum thickness measured is displayed

DIFF/RR%: compares the measured thickness with a user-specified nominal thickness - dimensional difference between the two values is displayed, as is the percentage difference EIN 37-1939950 11300 NW 87 CT STE 150 Telephone:786 816 7489 E-mail: info@testglassware.com HIALEAH, FL 33018 Website: https://testglassware.com/



B-Scan: displays a graphic representation of a B-Scan showing minimum thickness values - graph is derived by measuring and recording at 1 point per second

Three levels - DM5E Basic, DM5E and DM5E DL Thickness measurement under coating User-friendly operator interface New range of high performance probes Flexible data processing A range of measurement displays

Includes:

1X DM5E Basic Digital Ultrasonic Thickness Gauge .

Basic Instrument Includes:

Set (2 pcs.) AlMn dry cell batteries, AA, 1.5V, Bottle of

Couplant (100 g)

Manufacturer's certificate

Brief instruction card

Operating manual on CD

Plastic carrying case

1X DA 501 EN Probe, 5 MHz, Contact Dia. .475 in /

Meets EN specifications

1X KBA-533 Cable

Measuring range = 0.040 - 8.0 in / 1.2 - 200 mm in steel

Sch B # 9024.90.0000

Full Specifications

Operating principle Ultrasonic, pulse echo measurement method

Measuring range

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Depends on probe and material, 0.60 mm to 508 mm (0.025" to 20.00") in IP to 1st BW measurement mode,

2.00 mm to 127.0 mm (0.079" to 5.00") in dual-multi measurement mode, the coating thickness range shall be 0.3 mm to 2.50 mm (0" to 0.098").

Measuring resolution 0.01 mm default - selectable 0.01, 0.1 mm (0.001" default - selectable 0.001", 0.01")

Material velocity range 0.508 to 18.699 mm/msec (0.0200" to 0.7362"/msec)

Material velocity resolution 1 m/s (0.0001"/msec)

Units Inch or millimeter

Calibration One-point cal, on-block and off-block, two-point cal

Pulser

Excitation Pulse Spike pulser

Voltage 120 V into 50 ohm load, using 20 MHz oscilloscope

Receiver

Bandwidth 500 KHz to 12 MHz @ -3 dB

Gain Automatic gain control

Display type High-resolution graphical LCD, $64 \ge 128$ pixels, $53.0 \text{ mm} \ge 27.0 \text{ mm}$ with backlight and adjustable contrast

Update rate 4 Hz or 8 Hz, user selectable, 24 Hz scan mode capture rate

Thickness value display

NORMAL view mode 5 Digit, 10.6 mm (0.4") high

B-SCAN view mode 5 Digit, 2.55 mm (0.1") high

Display of last reading Solid filled or hollow digits indicate coupled or uncoupled condition

Setups 9 standard setups for probes

Alarm settings Minimum and maximum alarms, range of 0.25 mm to 508 mm, 0. (0.010" to 20.00") reading alternates between solid and hollow when alarms are enabled and violated

Power requirements 2 "AA" size batteries Battery life/ operating time Approximately 60 hours



Instrument shut-off Selectable ALWAYS ON or AUTO OFF after 5, 10, 15, 30 minutes of inactivity

Language Selectable English, German, French, Spanish, Italian, Russian, Japanese and Chinese

I/O connectors

Transducer Dual Lemo 00 (coax)

Mini-USB Mini USB to PC

Temperature Operating -10°C to +50°C (+10°F to +120°F)

Storage -20° C to $+60^{\circ}$ C (-10° F to $+140^{\circ}$ F)

Weight 223 g (0.597 lb) including batteries

Size 138 mm x 32 mm x 75 mm

Shock IEC 68-2-27 Ea, as per Mil Std 810C Method 516.2 Procedure I with a 15g 11ms impulse half sinusoidal wave applied 6 times per axis

Sealing IEC529 / IP54, dust proof/dripping water proof as per IEC 529 specifications for IP54 classification

DM5E probe/transducer specifications

Frequency 5 MHz

Probe style Standard

temperature range (continuous) -20 to 70°C

Contact diameter 15 mm (0.590")

IP to first measurement range 1.0 to 200 mm (0.040 to 8"

Minimum multi-echo measurement range 3.0 to 100 mm (0.118 to 3.936")

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