

DM 4E

Simple Ultrasonic Thickness Gauge




Best Value for Measuring Wall Thickness

The **DM 4E** is a small, basic, simple-to-use general purpose thickness gauge with excellent ultrasonic performance. It is ideal for the user who demands a simple, compact, reliable instrument at an affordable price. The DM 4E comes with the quality, dependability, and durability that you expect from a Krautkramer D-Meter and is backed by a full 2 year warranty on parts and labor.

SMALL

- Fits comfortably in the palm
- Lightweight (9 oz.) - no operator fatigue
- Rubber field case for added protection & comfort
- Neck & wrist straps for "hands free" use

SIMPLE

- Automatic Probe Zero...no zero block
- 4 key operation
- Automatically recognizes  Intelligent Transducers for best performance

- Deactivate/activate features to further simplify operation to meet job requirements
- 200 hours on two AA alkaline batteries

User Preferred Features

- MIN Mode captures thinnest reading
- Stable High-Temperature Measurement, (up to 1000°F, 538°C) with HT400 probe
- 2-Point Calibration for curved surfaces & best linearity with non-DIALOG transducers
- High-contrast, backlit display for easy viewing under any conditions
- Sealed, gasketed, splash-proof housing

The **DM 4E** is the best value in thickness gauging. See for yourself! Call today to arrange a demonstration.

DM 4E

Base Instrument Package

- DM 4E Ultrasonic Thickness Gauge
- Two 1.5V AA Alkaline Batteries
- Carrying Case
- Operating Instruction Card
- Operating Manual
- Certificate of Calibration

Accessories

RC-984

Rubber instrument case with prop-up stand, adjustable neck and wrist straps, and hanging loop

FB-579

Field Accessory Belt with removable pouches

LCC-326

Locking Transport and Storage Case

HTC-010

HiTempco Couplant (2 oz. tube)



FB-579 Field Accessory Belt

See Probe Specifications table for model identification.

Specifications

Operating Principle

Ultrasonic pulse/echo

Probe Zero Adjustment

Automatic, or manual 2-pt. calibration

V-Path Correction

automatic, microprocessor controlled

Measuring Range

0.25"- 20.00" (.64-500mm) depending on probe, material, surface condition, and temperature

Displayed Resolution

.001 or .01 up to 9.999 inches, .01 above 9.999 inches; .01 or .1 up to 99.99 mm, .1 above 99.99 mm

Measurement Update Rate

4 Hz; 25 Hz in Minimum Capture Mode

Gain

Automatic

Material Velocity Range

39,000 to 393700 in./sec.;
1000 to 9999 m/sec.

Receiver Bandwidth

1 MHz to 10 MHz (-3 dB)

Display Type

4 digit LCD, .5" (12.7 mm) high, direct drive, with electroluminescent backlight

Power Supply

2 ea. 1.5V AA alkaline cells

Battery Life (operating time)

Up to 200 hours @25% duty cycle without backlight

Auto Shutoff

After 3 minutes of non-use



Hands-Free use with wrist strap



Hands-Free use with prop-up stand

Operating Temperature Range

+10°F to +120°F (-10°C to +50°C)

Size (L x W x D)

5.8" x 3.0" x 1.4" (at thickest point);
146.0 mm x 76.2 mm 34.3 mm

Weight

9 oz. (255 g) including batteries

Hazardous Area Operation

Safe operation as defined by MIL-STD-810E, method 511.3, procedure.

Model	Designation	Probe Cable	Contact Diameter	Measuring Range in Steel	Temp Range
A. FH2E	High Sensitivity Fingertip	Potted	.380" (9.6 mm)	.030"- 2.0" (.75 - 50 mm)	< 130°F (54°C)
B. KBA560	General Purpose	KBA531	.625" (15.9 mm)	.060"- 8.0" (1.5 - 200 mm)	< 450°F (230°C)
C. HT400	High Temperature	KBA535/536	.500" (12.7 mm)	.030"- 10.0" (.76 - 254 mm)	< 1000°F (538°C)
D. DA312	Thin Materials	KBA532	.300" (.76mm)	.025"- 1.0" (.64 - 25 mm)	< 130°F (54°C)
E. KB550FH*	Fingertip	Potted	.375" (9.5 mm)	.060"-2.0" (1.5 - 50 mm)	< 130°F (54°C)
F. KB550BTH*	Studded Boiler Tube	C-BTH	.375" (9.5 mm)	.060"-2.0" (1.5 - 50 mm)	< 130°F (54°C)
G. DP-104	High Penetration	KBA532	1.25" (31.8 mm)	.200" (5 mm) minimum	< 130°F (54°C)
H. DA303	Penetration	KBA533	.635" (16.2 mm)	.200" (5 mm) minimum	< 140°F (60°C)
I. DA301	General Purpose	KBA533	.475" (12.1 mm)	.050"- 8.00" (1.2 - 200 mm)	< 140°F (60°C)
J. FH2E-WR	Wear Resistant	Potted	.550" (14.0 mm)	.030"- 2.0" (.75 - 50 mm)	< 130°F (54°C)
K. KBA560-WR	Wear Resistant	KBA531	.700" (17.8 mm)	.060"- 8.0" (1.5 - 200 mm)	< 450°F (230°C)
L. FH2E-D★	High Sensitivity Fingertip	Potted	.380" (9.6 mm)	.030"- 2.0" (.75 - 50 mm)	< 130°F (54°C)
M. KBA50-D★	General Purpose	KBA531	.625" (15.9 mm)	.060"- 8.0" (1.5 - 200 mm)	< 250°F (121°C)
- DA312B16	3mm Footprint	Potted	.120" (3.0 mm)	.025"- .500" (.6 - 13 mm)	< 130°F (54°C)

★ DIALOG Intelligent Transducers – automatically recognized for optimum performance.

* 2-pt. calibration required, auto probe zero inoperable

Note: Other standard probe models are available and "special probes" are developed in our Application Lab to satisfy unique requirements

• Specifications subject to change without notice.

• DM 4E is covered by a full two year warranty on parts and labor

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Our facility's quality system conforms to ISO 9001. ANSI/ASQC Q91.

