

Krautkramer DM4E

Simple ultrasonic thickness gauge

The DM4E 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 DM4E 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 and 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 DM4E is the best value in thickness gauging. See for yourself! Call today to arrange a demonstration.



Krautkramer DM4E

Base Instrument Package

DM4E 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)

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 393,700 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

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.

Application and Description	Model	Probe Cable	Contact Diameter	Frequency	Measuring Range In Steel	Temperature Range
High Sensitivity Fingertip	FH2E	Potted	.380" (9.6 mm)	7.5	.030" - 2.0" (.75 - 50 mm)	< 130° F (< 538° C)
High Temperature	HT400	KBA533/536	.500" (12.7 mm)	5.0	.030"- 10.0" (.76 - 254 mm)	<1 000° F (< 538° C)
Thin Materials	DA312	KBA532	.300" (.76 mm)	10.0	.025"- 1.0" (.64 - 25 mm)	< 130° F (< 54° C)
High Penetration	DP 104	KBA532	1.25" (31.8 mm)	1.0	.200" (5 mm) minimum	< 130° F (< 54° C)
Penetration	DA 303	KBA533	.635" (16.2 mm)	2.0	.200" (5 mm) minimum	< 140° F (< 60° C)
General Purpose	DA 301	KBA533	.475" (12.1 mm)	4.0	.050"- 8.00" (1.2 - 200 mm)	< 140° F (< 60° C)
Wear Resistant	FH2E WR	Potted	.550" (14.0 mm)	7.5	.030"- 2.0" (.75 - 50 mm)	< 130° F (< 54° C)
High Sensitivity Fingertip	FH2E D★	Potted	.380" (9.6 mm)	7.5	.030"- 2.0" (.75 - 50 mm)	< 130° F (< 54° C)
General Purpose	DM 401 GP★	KBA533/ 533A	.700" (17.8 mm)	5.0	.060"-8.0" (1.5 -200mm)	< 300° F (< 148° C)
General Purpose	DM 411 GP★	DA 233	.700" (17.8 mm)	5.0	.060"-8.0" (1.5 -200mm)	< 300° F (< 148° C)
Small Dia. Fingertip	FH2E M	Potted	.280" (7.1 mm)	7.5	.030"-2.0" (.75-50mm)	< 130° F (< 54° C)
3 mm Footprint	DA 312B16*	Potted	.120" (3.0 mm)	10.0	.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.

• DM4E is covered by a full two year warranty on parts and labor