

## TECHNICAL DATA

# Fluke 417D Laser Distance Measurer



**The Fluke 417D is accurate, durable, and easy to use—just point and shoot.**

**The simple design and easy one-button operation means you can minimize your time measuring while maximizing the reliability of the measurements you need.**

The Fluke 417D laser distance meter is designed for indoor and outdoor applications. The 417D operates with the Fluke durability and quality you expect. And, with simple function buttons, three different measurement tasks can be completed quickly and easily.

The extra bright laser is clearly visible, so you can always see your targeting point even if the target object is in a hard-to-reach spot, or at a long distance. The 417D has a large 2-line illuminated LCD screen and three-buttons for easy-to-use one-handed measurements.

### The 417D additionally offers:

- 131 ft. working range
- One-touch controls
- 2-line illuminated display
- Ultra-portable
- 1-meter drop tested
- IP54 dust and water resistant
- 3-year warranty

### FEATURES AND BENEFITS

All meters offer:

- Measures up to 40 m (131 ft.) with accuracy of 2mm (0.08 in)
- Instant distance measurement with one-button operation
- Great for interior and exterior applications
- Improved visibility with backlit screen
- Easy targeting with bright laser
- Quick calculation of area (square footage)
- Continuous measurement capable
- Improved battery life from automatic shut-off feature
- Battery life of 3,000 measurements



## General specifications

| 417D                                           |                                                                                                                                         |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Typical range [1]                              | 0.2-40 m/0.6-131 ft                                                                                                                     |
| Typical measuring tolerance* [1]               | 2.0 mm ± 1.5 mm/± 0.06 in ***                                                                                                           |
| Maximum measuring tolerance [2]                | ± 3.0 mm/0.12 in ***                                                                                                                    |
| Accuracy up to 10m (+/-)                       | ± 2 mm                                                                                                                                  |
| Display                                        | 2 line/1 mm/1/32 in                                                                                                                     |
| Display illumination                           | Yes                                                                                                                                     |
| Laser point at distance                        | 6/30/60 mm (10/40/100 m)                                                                                                                |
| Area                                           | Yes                                                                                                                                     |
| Units setting (smallest units displayed)       | 0,000m, 0' 00" 1/32, 0 in 1/32                                                                                                          |
| Auto laser switch off                          | 90 sec                                                                                                                                  |
| Auto power switch off                          | 180 sec                                                                                                                                 |
| General                                        |                                                                                                                                         |
| Laser class                                    | II                                                                                                                                      |
| Laser type                                     | 635 nm, <1 mW                                                                                                                           |
| Protection class                               | IP54                                                                                                                                    |
| Battery life (2 x AAA) 1.5 V NEDA 24A/IEC LR03 | Up to 3,000 measurements                                                                                                                |
| Size (H x W x D)                               | 11.9 x 3.8 x 2.6 cm                                                                                                                     |
| Drop test                                      | 1 meter                                                                                                                                 |
| Weight (with batteries)                        | 95g (3.35 oz)                                                                                                                           |
| Temperature range: Storage                     | -25 °C to 70 °C (-13 °F to 158 °F)                                                                                                      |
| Temperature range: Operation                   | -10 °C to 50 °C (14 °F to 122 °F)                                                                                                       |
| Calibration cycle                              | Not applicable                                                                                                                          |
| Maximum relative humidity                      | 85 % @ 20°F to 120 °F<br>(-7 °C to 50 °C)                                                                                               |
| Safety                                         | CAN/CSA-C22.2 No. 61010-1-04, UL Std. No. 61010-1 (2nd Edition), ISA-82.02.01, IEC Standard No. 61010-1:2001, EN60825-1:2007 (Class II) |
| EMC                                            | 61326-1:2006                                                                                                                            |

- [1] Applies for 100 % target reflectivity (white painted wall), low background illumination, 25 °C (13 °F).
- [2] Applies for 10 % to 500 % target reflectivity, high background illumination, -10 °C to +50 °C (14 °F to +122 °F).
- [3] Tolerances apply from 0.05 m to 10 m (0.001 ft to 32.8 ft) with a confidence level of 95 %. The maximum tolerance may deteriorate to 0.1 mm/m (0.003 in/ft) between 10 m to 30 m (32.8 ft to 98.4 ft) and to 0.15 mm/m (0.005 in/ft) for distances above 30 m (98.4 ft).
- [4] Applies for 100 % target reflectivity, background illumination between 10,000 lux and 30,000 lux.
- [5] After user calibration. Additional angle related deviation of ± 0.01° per degree up to ± 45° in each quadrant. Applies at room temperature. For the whole operating temperature range the maximum deviation increases by ± 0.1°.



Fluke 417 D Laser  
Distance Meter

## Ordering information

### Fluke 417D Laser Distance Meter

Laser distance meter, two AAA batteries, user's manual, quick reference guide, lanyard, and three-year warranty.

**Fluke 417D/62 Max+** Laser Distance Meter/Infrared Thermometer combo kit



## Why use a distance meter?

**Instant measurements up to 40 meters/131 feet.** Just point, click, done.

**Measure with greater accuracy.** Up to  $\pm 2$  mm. Accuracy at the level you require.

**Do the work of two.** Instead of holding the tape, your helper can do other jobs.

**Speed up the job.** Easily measure hard-to-access areas, like high ceilings, without climbing a ladder.

**Reduce estimating errors**—let the meters do the math. Find area measurements easily.

**Trust Fluke tools.** Rugged and reliable, dust and splash-proof, you can work indoors and out with confidence, because they're Fluke tools.

**Fluke.** *Keeping your world up and running.®*