

Fluke 416D and 411D Laser Distance Meters



Technical Data

Professional-grade distance measuring tools that are fast, easy to use, and fit in your pocket.

The Fluke laser distance meters use the most advanced distance measuring technology. These meters are fast, accurate, durable, and easy to use—just point and shoot. Their simple design and easy one-button operation means you spend less time measuring while increasing the reliability of the answers that you need.

Laser distance meters also display temperature in American Standard units (i.e. feet and inches)

The compact and handy Fluke laser distance meters were designed for indoor and limited outdoor applications. Both models are simple to operate, with the Fluke durability and quality you expect. And, with shortcut keys for addition, subtraction, area, and volume, measurements could not be simpler.

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 a long distance away. These units have a large LCD screen and buttons positioned for one-handed measurements.

Features and benefits

Both meters offer:

- Reduction of estimation errors, saving both time and money
- The most advanced laser technology for distance measurement
- Instant measurement with one-button operation
- Easy targeting with bright laser
- Quick calculation of area (square footage) and volume
- Easy addition and subtraction of measurements
- Improved battery life from automatic shut-off feature
- Pythagoras calculation for determining distance indirectly from two other measurements
- Pouch with Fluke logo
- Two-year warranty

The 416D additionally offers:

- Improved visibility with backlit, three-line display
- Ability to measure up to 60 m (200 ft)
- Enhanced Pythagoras calculation for determining distance indirectly from three other measurements
- Audible feedback of on and off modes
- Storage of the last ten measurements for quick recall of distance
- Minimum and Maximum function
- Strong environmental protection with IP54 (water spray and dust proof) sealing

Why use a distance meter?

Reduce measuring time – Instant measurements with the touch of a button.

Quickly measure long distances – Measure up to 60 m (200 ft), easier, and more accurately than with a tape measure.

Increase measuring accuracy – Get accuracy up to 1.5 mm (1/16 in), eliminating any guesswork.

One-person measuring – With a laser, there is no need for a second person.

One-handed operation – Laser measuring devices are easily operated with one hand.

Safety – A laser measuring device allows you to measure areas you may not be able to safely access.

Obtain difficult measurements – Easily measure inside a false ceiling.

Determine square footage and volume – Automatic calculation of area (square footage) and volume, with the touch of a button.



General specifications

Technical specifications	Fluke 411D	Fluke 416D
Range (for extended distances, use a target plate)	0.1 m to 30 m (0.33 ft to 100 ft)	0.05 m to 60 m (0.16 ft to 200 ft)
Measuring accuracy**	± 3 mm (0.118 in)	± 1.5 mm (± 0.059 in)
Units displayed	00.000 m, 000 ft 00 in 1/8, 000.00 ft	00.000 m, 000 ft 00 in 1/16, 000.00 ft
Laser class	II	II
Laser type	635 nm, < 1 mW	635 nm, < 1 mW
Automatic power off	after 180 seconds	after 180 seconds
Continuous measurement	•	•
Addition/subtraction	•	•
Battery life	up to 3,000 measurements	up to 5,000 measurements
LCD illumination	–	•
Data locations	–	10
Min/Max	–	•
Audible feedback	–	•
Pythagoras (Indirect measurement)	Simple	Full
Ingress protection	IP40	IP54
Dimensions	123 mm x 50 mm x 26 mm (4.84 in x 1.97 in x 1.02 in)	135 mm x 46 mm x 31 mm (5.31 in x 1.81 in x 1.22 in)
Weight	150 g (5.29 oz)	110 g (3.88 oz)
Temperature range		
Storage	–25 °C to 70 °C (–13 °F to 158 °F)	–25 °C to 70 °C (–13 °F to 158 °F)
Operation	0 °C to 40 °C (32 °F to 104 °F)	0 °C to 40 °C (32 °F to 104 °F)
Operating altitude (ISO 9022)	up to 3500 m	up to 3500 m
Storage humidity (at 35 °C)	maximum 85 % for 24 h	maximum 85 % for 24 h
Batteries	AAA (2)	AAA (2)

* In favorable conditions (optimal target surface, room temperature) up to 10 m (33 ft). In unfavorable conditions, such as intensive sunshine, very weakly reflecting target surface, or large temperature fluctuations, measuring accuracy may deteriorate to approx. ± 0.25 mm/m (± 0.003 in/ft) for distances above 10 m (33 ft).

** In favorable conditions (optimal target surface, room temperature) up to 10 m (33 ft). In unfavorable conditions, such as intensive sunshine, very weakly reflecting target surface, or large temperature fluctuations, the deviation over distances 10 m (33 ft) can increase by approx. ± 0.15 mm/m (± 0.0018 in/ft).

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Fluke Corporation
PO Box 9090, Everett, WA USA 98206

Fluke Europe B.V.
PO Box 1186, 5602 BD
Eindhoven, The Netherlands

For more information call:
In the U.S.A. (800) 443-5853 or
Fax (425) 446-5116
In Europe/M-East/Africa (31 40) 2 675 200 or
Fax (31 40) 2 675 222
In Canada (800)-36-FLUKE or
Fax (905) 890-6866
From other countries +1 (425) 446-5500 or
Fax +1 (425) 446-5116
Web access: <http://www.fluke.com>

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