

Fluke 420D, 415D, and 410D Distance Meters

Technical Data



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

The Fluke laser-measuring tools are the latest in measuring technology. The 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.

The compact and handy Fluke distance meters were specifically designed for indoor, and limited outdoor, applications. All models are simple to operate, with the Fluke durability and quality you expect. And, with shortcut keys for addition, subtraction, area, square feet, 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

All meters offer:

- Elimination 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 square footage and volume
- Easy addition and subtraction of measurements
- Improved battery life from automatic shut-off feature
- Two-year warranty

The 415D additionally offers:

- Improved visibility with backlit display
- Ability to measure up to 200 feet with increased accuracy
- Class II laser for improved targeting

With all the functionality of the 415D, the 420D also offers:

- Ability to measure up to 325 feet
- Ability to view more with large, 4-line display with backlight
- Storage of the last 3 measurements for quick recall of distance
- Minimum and Maximum function
- Maximum environment protection with IP54 (water spray & 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 325 ft, easier, and more accurately than with a tape measure.

Increased measuring accuracy – Most laser measuring devices are accurate to within 1/8", eliminating any guesswork.

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

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

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

Ability to obtain difficult measurements – Easily measure inside a false ceiling.

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



General specifications

Technical specifications	Fluke 410D	Fluke 415D	Fluke 420D
Range (for extended distances, use a target plate)	0.65 ft to 100 ft	0.2 ft to 200 ft	0.2 ft to 325 ft
Measuring accuracy (2)	typically: ± 0.2 in*	typically: ± 0.1 in*	typical: ± 0.1 in**
Smallest unit displayed	0.1 in or 1/8 in	0.06 in or 1/16 in	0.06 in or 1/16 in
Laser class	III a	II	II
Laser type	630 nm to 690 nm, < 5 mW	630 nm to 670 nm, < 1 mW	630 nm to 670 nm, < 1 mW
Automatic power off	after 90 seconds	after 180 seconds	after 180 seconds
Continuous measurement	Yes	Yes	Yes
Addition/subtraction	Yes	Yes	Yes
Battery life	up to 3,000 measurements	up to 5,000 measurements	up to 5,000 measurements
Dimensions	4.72 in x 2.4 in x 1.2 in	4.88 in x 2.1 in x 1.4 in	5.31 in x 1.8 in x 1.3 in
Weight	5.46 oz	5.46 oz	5.11oz
Temperature range			
Storage	-13 °F to 158 °F	-13 °F to 158 °F	-13 °F to 158 °F
Operation	41 °F to 104 °F	32 °F to 104 °F	14 °F to 122 °F
Protection Class	–	–	IP 54 (IEC60529)
Batteries	9 V battery	9 V battery	AAA (2)

Fluke. Keeping your world up and running.®

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>

©2007 Fluke Corporation. All rights reserved.
Specifications subject to change without notice.
Printed in U.S.A. 4/2007 3028711 D-EN-N Rev A

* In favorable conditions (optimal target surface, room temperature) up to 11.89 m (39 ft). In unfavorable conditions, such as intensive sunshine, very weakly reflecting target surface, or large temperature fluctuations, measuring accuracy may deteriorate to approx. ± 0.01 in/ft for distances above 39 ft.

** Under unfavorable conditions, e.g., for temperature alterations, for a poorly reflecting surface or bright ambient light, the error of measurement can be up to .15 inch. For working range in excess of 98 ft, the accuracy declines by 0.003 in/ft.