



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

* 420D Not Yet Available



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

Technical Data

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 | 5.11 oz |
| Temperature range Storage Operation | -13 °F to 158 °F 41 °F to 104 °F | -13 °F to 158 °F 32 °F to 104 °F | -13 °F to 158 °F 14 °F to 122 °F |
| Protection Class | – | – | IP 54 (IEC60529) |
| Batteries | 9 V battery | 9 V battery | AAA (2) |

* 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.

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