

**Two NEW professional-grade laser distance meters from Fluke—they're fast, easy to use, and they fit in your tool belt.**

These meters will save you time and money by reducing measurement time and errors!

**Why the Fluke 416D, 411D?**

Use Fluke laser distance meters to quickly and accurately determine the distance to your target object, the area bounded by two distances, or the volume within three measurements:

- Reduce estimation errors saving time and money
- Instantly measure with one-button operation
- Quickly calculate area (square feet) and volume
- Easily perform addition and subtraction of measurements



Laser distance meters are better than ultrasonic devices because they use a laser to emit light waves and measure their reflection to accurately determine distances.

- Most advanced technology for measuring distances
- Much more accurate and reliable, and measure longer distances
- Confidently measure up to 60 m (200 ft) with 1.5 mm (1/16 in) accuracy (416D)

The ruggedness and reliability that customers expect from Fluke



**Target Customers:**

Electricians (industrial and commercial), HVAC and IAD technicians, plant mechanical maintenance personnel, plant engineers, lighting technician and installers, wirer pullers (electrical and networking), network managers, plant managers, building managers, electrical and HVAC job estimators, HVAC duct installers, production line maintenance and installers, office space managers, contractors, and anyone who needs to take measurements.

**Target Industries:**

Plant maintenance, building maintenance, commercial, HVAC/R, IAD (Indoor Air Diagnostics) electrical contractors, manufacturing facilities, process facilities, power plants, pharmaceutical plants, printing plants, automotive assembly plants, refineries, steel mills and other metal manufacturing plants, defense contractors, university maintenance, hospital maintenance, and anywhere measurements are taken.





**Features and benefits:  
Two models for all your  
distance, area, and  
volume calculation needs!**

**The 416D and 411D laser  
distance meters offer:**

- Reduction of estimation errors, saving time and money
- The most advanced laser technology for distance measurement
- Instant measurement with one-button operation
- Easy targeting with bright laser
  - Measurement to 30 m (100 ft) with accuracy of ± 3 mm (0.12 in)
- Quick calculation of area (square feet) and volume
- Easy addition and subtraction of measurements
- Pythagoras function for indirect measurement via two other measurements
- Improved battery life from automatic shut-off feature
- Display holds for easier viewing in hard-to-reach areas
- Batteries: 2 AAA
- Carrying pouch to secure on tool belt
- Two-year warranty

**The 416D additionally offers:**

- Ability to view more data with backlit, three-line display
- Ability to measure up to 60 m (200 ft) with increased accuracy of ± 1.5 mm (0.06 in)
- Full Pythagoras function (determine distance indirectly via two or three other measurements)
- Audible activation and shut down notification
- 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

**Laser measurement wins  
every time over ultrasonic**

Many ultrasonic distance meters have a laser pointer that is not used for measurement, leading to confusion with a true laser distance meter. Ultrasonic meters emit a sound wave and measure the time for it to return. However, the returning sound wave is not always reflected from the target object. Thus, an ultrasonic meter can often display false readings, especially in mechanical rooms with equipment or panels that are near walls. Ultrasonic distance meters are limited to measuring 15 m (50 ft) and do not work well outdoors. There are ultrasonic meters that extend beyond 15 m (50 ft) but with accuracy degraded to a tolerance of ± 150 mm (6 in).

Instead of sound waves, laser distance meters emit light pulses with a defined wavelength and frequency. The light pulses reflect off the specific target and are received back by the meter at the speed of light. The returning wavelengths and light pulses change from those sent out by the meter. The difference between the two signals is proportional to the target distance. Unlike ultrasonic meters, the laser distance meters' narrow laser beam prevents reflection off objects that are near the wall or hanging on it, helping avoid false readings.

For more information regarding sonic verses laser technology, check out Fluke's virtual demo on the web at [www.fluke.com/distance](http://www.fluke.com/distance).

**Ordering information**

Fluke model	Grainger #	Capability
Fluke 411D	3RCZ2	Measure up to 30 m (100 ft)
Fluke 416D	3RCZ1	Measure up to 60 m (200 ft)



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up and running.®*

