

# Fluke 414D Distance Measuring Laser



## Key features

- Rugged, professional grade laser distance meter featuring advanced laser distance measurement technology
- Instantly measures up to 50 m (165 ft.) with one-button point-and-click operation
- Offers Pythagoras calculation to indirectly measure height from two other measurements
- Quickly calculates area (square feet/meters) and volume
- Offers easy to-use addition and subtraction function

## Product overview: Fluke 414D Distance Measuring Laser

### Fluke 414D Laser Distance Meter delivers professional-grade distance measurements quickly and easily

The Fluke 414D is a big step up from the common tape measure and it's much easier to use. Just point and click. No scales to interpret or misread. The 414D measures up to 50 meters (165 ft.), with 2 mm (0.08 in) accuracy and the extra bright laser makes targeting easy. This professional-grade laser distance meter is fast and easy to use to help improve accuracy and reduce measurement errors. You'll save time and money at every step.

### Other useful features:

- Offers minimum/maximum tracking to measure the room's diagonal and horizontal distance from a stable measurement point
- Stores up to five measurement results
- Provides audible keypad feedback
- Offers battery life of 3000 measurements with automatic shut-off feature
- Presents measurements on two-line display with display hold
- Powered by two AAA batteries

## Specifications: Fluke 414D Distance Measuring Laser

Distance Measurement	
Typical measuring tolerance <sup>1</sup>	±2.0 mm <sup>3</sup>
Maximum measuring tolerance <sup>2</sup>	±3.0 mm <sup>3</sup>
Range At Leica Target Plate GZM26	50 m / 165 ft
Typical range <sup>1</sup>	40 m / 130 ft
Range at unfavorable condition <sup>4</sup>	35 m / 115 ft
Smallest unit displayed	1 mm / 1/16 in
Ø Laser point at distances	6 / 30 / 60 mm (10 / 50 / 100 m)
Tilt Measurement	
Measuring tolerance to laser beam <sup>5</sup>	No
Measuring tolerance to housing <sup>5</sup>	No
Range	No
General	
Laser class	2
Laser type	635 nm, < 1 mW
Protection class	IP40
Automatic laser off	After 90 seconds
Automatic power off	After 180 seconds
Battery life (2 x AAA) 1.5 V NEDA 24A/IEC LR03	Up to 3,000 measurements
Size (L x W x D)	116 x 53 x 33 mm
Weight (with batteries)	113 g
Temperature range	-25°C to +70°C (-13°F to +158°F)
Storage operation	0°C to +40°C (32°F to +104°F)
Calibration cycle	Not applicable
Maximum altitude	3000 m
Maximum relative humidity	85% at 20°F to 120°F (-7°C to 50°C)
Safety	IEC Standard No. 61010-1:2001
	EN60825-1:2007 (Class II)
EMC	EN 55022:2010
	EN 61000-4-3:2010
	EN 61000-4-8:2010

1. Applies for 100% target reflectivity (white painted wall), low background illumination, 25°C.
2. Applies for 10 to 500% target reflectivity, high background illumination, -10°C to +50°C.
3. Tolerances apply from 0.05 m to 10 m with a confidence level of 95%. The maximum tolerance may deteriorate to 0.1 mm/m between 10 m to 30 m and to 0.15 mm/m for distances above 30 m.
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  $\pm 0.01^\circ$  per degree up to  $\pm 45^\circ$  in each quadrant. Applies at room temperature. For the whole operating temperature range the maximum deviation increases by  $\pm 0.1^\circ$ .

## Ordering information



### **Fluke 414D**

Fluke 414D Laser Distance Meter

Includes:

- Two AAA batteries
- Users manual on CD (17 languages)
- Quick reference guide
- Vinyl carrying pouch
- Lanyard
- Three-year warranty

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