

Fluke 414D Laser Distance Meter



Features

The 414D reduces errors, saves time, saves money.

Features:

- The most advanced laser technology for distance measurement
- Simple one-button operation to instantly measure distance between two objects
- Measures up to 50 m (165 ft) with accuracy of 2 mm (0.08 in)
- Bright laser for easy targeting even at longer distances
- Quick calculation of area (square feet/meters) and volume
- Easy addition and subtraction function
- Pythagoras function indirectly measures height via two other measurements
- Stores up to five measurement results
- Battery life of 3000 measurements with automatic shut-off feature
- Two-line display with display hold (until next button is pressed)
- Carrying pouch secures to your tool belt
- Powered by two AAA batteries

All meters offer:

- Reduction of estimation errors, saving both time and money
- The most advanced 2 laser technology for distance measurement
- Instant measurement with one-button operation
- Easy addition and subtraction function
- Quick calculation of area (square footage) and volume
- Easy addition and subtraction of measurements
- Minimum/maximum function
- Improved battery life from automatic shut-off feature
- Pythagoras calculation for determining distance indirectly from two other measurements
- Pouch with Fluke logo
- Three-year warranty



Specifications

	414D	419D	424D
Distance Measurement			
Typical Measuring Tolerance[1]	± 2.0 mm [3]	± 1.0 mm [3]	
Maximum Measuring Tolerance[2]	± 3.0 mm [3]	± 2.0 mm [3]	
Range at Leica target plate GZM26	50 m / 165 ft	80 m / 260 ft	100 m / 330 ft
Typical Range[1]	40 m / 130 ft	80 m / 260 ft	80 m / 260 ft
Range at unfavorable condition[4]	35 m / 115 ft	60 m / 195 ft	60 m / 195 ft
Smallest unit displayed	1 mm / 1/16 in	6 /30 / 60 mm (10 / 50 / 100 m)	
Ø laser point at distances	6 /30 / 60 mm (10 / 50 / 100 m)	6 /30 / 60 mm (10 / 50 / 100 m)	
Tilt measurement			
Measuring tolerance to laser beam[5]	No	No	± 0.2°
Measuring tolerance to housing[5]	No	No	± 0.2°
Range	No	No	360°
General			
Laser class	2		
Laser type	635 nm, <1 mW		
Protection class	IP40	IP54	
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	Up to 5,000 measurements	
Size (H X W X L)	116mm Length 53mm Width 33mm Depth	127mm Length 56mm Width 33mm Depth	127mm Length 56mm Width 33mm Depth

Weight (with batteries)	113 g	153 g	158 g
Temperature range:	-25 °C to +70°C (-13 °F to +158 °F)	-25 °C to +70°C (-13 °F to +158 °F)	
Storage Operation	0 °C to +40 °C (32 °F to +104 °F)	-10 °C to +50 °C (14 °F to +122 °F)	
Calibration cycle	Not applicable	Not applicable	Tilt and compass
Maximum altitude	3000 m	3000 m	3000 m
Maximum relative humidity	85% at 20 °F to 120°F (-7 °C to 50 °C)	85% at 20 °F to 120°F (-7 °C to 50 °C)	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 ±0.01° per degree up to ±45° in each quadrant. Applies at room temperature. For the whole operating temperature range the maximum deviation increases by ±0.1°.

Fluke 414D	Laser Distance Meter Includes: <ul style="list-style-type: none"> ● 414D Laser Distance Meter ● Two AAA batteries ● Users manual on CD (17 languages) ● Quick reference guide ● Vinyl carrying pouch ● Lanyard ● Three-year warranty
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