Fluke 424D, 419D and 414D Laser Distance Meters

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

The Fluke laser distance meters use the most advanced distance measuring technology. These 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 while increasing the reliability of the answers that you need.

The compact and handy Fluke laser distance meters were designed for indoor and limited outdoor applications. All three models are simple to operate, with the Fluke durability and quality you expect. And, with specific function buttons, different tasks can be completed quickly and easily.

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:
- Reduction 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 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

The 424D and 419D additionally offers:
- Improved visibility with backlit screen
- Ability to measure up to 80 m (260 ft) for 419D, 100 m (330 ft) for 424D
- Tripod mode allows you to mount to a tripod for measuring long distances
- Stake out function
- Enhanced Pythagoras calculation for determining distance indirectly from three other measurements
- Audible keypad feedback
- Storage of the last twenty measurements for quick recall of distance
- Strong environmental protection with IP54 (water spray and dust proof) sealing

The 424D additionally offers:
- Inclination sensor for taking measurements in hard to reach areas
- Compass provides a “heading” for distance measurement
- Automated endpiece correction: when measuring from an edge or corner, a built-in sensor detects the position of this bracket and automatically changes the reference point
## General specifications

<table>
<thead>
<tr>
<th>Distance measurement</th>
<th>414D</th>
<th>419D</th>
<th>424D</th>
</tr>
</thead>
<tbody>
<tr>
<td>Typical measuring tolerance(^1)</td>
<td>± 2.0 mm(^3)</td>
<td>± 1.0 mm(^3)</td>
<td>± 0.5 mm(^3)</td>
</tr>
<tr>
<td>Maximum measuring tolerance(^2)</td>
<td>± 3.0 mm(^3)</td>
<td>± 2.0 mm(^3)</td>
<td>± 1.0 mm(^3)</td>
</tr>
<tr>
<td>Range at Leica target plate GZM26</td>
<td>50 m/165 ft</td>
<td>80 m/260 ft</td>
<td>100 m/330 ft</td>
</tr>
<tr>
<td>Typical range(^1)</td>
<td>40 m/130 ft</td>
<td>80 m/260 ft</td>
<td>80 m/260 ft</td>
</tr>
<tr>
<td>Range at unfavorable condition(^4)</td>
<td>35 m/115 ft</td>
<td>60 m/195 ft</td>
<td>60 m/195 ft</td>
</tr>
<tr>
<td>Smallest unit displayed</td>
<td>1 mm /1/32 in</td>
<td>1 mm /1/32 in</td>
<td>1 mm /1/32 in</td>
</tr>
<tr>
<td>Power Range Technology(^*)</td>
<td>no</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>ø laser point at distances</td>
<td>6/30/60 mm (10/50/100 m) 0.23/1.18/2.36 in (32.8/164/330)</td>
<td>6/30/60 mm (10/50/100 m) 0.23/1.18/2.36 in (32.8/164/330)</td>
<td></td>
</tr>
</tbody>
</table>

### Tilt measurement
- Measuring tolerance to laser beam\(^3\) | no | no | ± 0.2° |
- Measuring tolerance to housing\(^3\) | no | no | ± 0.2° |
- Range | no | no | 360° |

### General
- Laser class | II |
- 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) | up to 3,000 measurements (up to 5,000 measurements) |
- Size (HxWxD) | 116 mm x 53 mm x 33 mm (4.56 in x 2.08 in x 1.29 in) | 127 mm x 56 mm x 33 mm (5 in x 2.20 in x 1.29 in) | 127 mm x 56 mm x 33 mm (5 in x 2.20 in x 1.29 in) |
- Weight (with batteries) | 113 g (3.98 oz) | 153 g (5.39 oz) | 158 g (5.57 oz) |
- Temperature range: Storage | -25 °C to +70°C (-13 °F to +158 °F) | -25 °C to +70°C (-13 °F to +158 °F) |
- Temperature range: 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 |
- Maximum altitude | 3000 m |
- Maximum relative humidity | 85 % at 20 °C to 120 °C (-7 °C to 50 °C) |

### Ordering information
- Fluke 424D Laser Distance Meter
- Fluke 419D Laser Distance Meter
- Fluke 414D Laser Distance Meter

All models include: Laser distance meter, two AAA batteries, users manual on CD, quick reference guide, vinyl carrying pouch, and three-year warranty

---

### Why use a distance meter?

**Instant measurements up to 100 meters/330 feet.** Just point, click, done.

**Measure with greater accuracy.** Up to ± 1 mm. No scales to interpret or misread.

**Do the work of two.** Instead of holding the tape, your helper can do other jobs.

**Speed up the job.** Easily measure hard-to-access areas, like high ceilings, without climbing a ladder.

**Keep it on the level.** New inclination sensor on the Fluke 424D helps with leveling, height tracking, and measuring around obstacles.

**Reduce estimating errors—let the meters do the math.** Find area and volume. Easily add and subtract distances. Use Pythagoras calculations for height.

**Trust Fluke tools.** Rugged and reliable, dust- and splash-proof, you can work indoors and out with confidence, because they’re Fluke tools.

For more information visit www.fluke.com/distance

---

**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-S116
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

Specifications subject to change without notice.
Printed in U.S.A. 4/2012  3028711E D-EN-N
Modification of this document is not permitted without written permission from Fluke Corporation.