

FLUKE®

417D/424D

Laser Distance Meters

Safety Information



3-Year Limited Warranty.
See the Users Manual for the full warranty.

To register your product, visit www.fluke.com.

To view, print, or download the latest manual or manual supplement, visit www.fluke.com/usen/support/manuals.

A **Warning** identifies hazardous conditions and procedures that are dangerous to the user.

Warning

To prevent eye damage and personal injury:

- **Read all safety information before you use the Product.**
- **Carefully read all instructions.**
- **Use the Product only as specified, or the protection supplied by the Product can be compromised.**
- **Do not use the Product around explosive gas, vapor, or in damp or wet environments.**
- **Do not use the Product if it operates incorrectly.**
- **Do not use the Product if it is altered or damaged.**

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PN 5114760

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Specifications are subject to change without notice.

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125167, г. Москва,

Ленинградский проспект дом 37,

корпус 9, подъезд 4, 1 этаж

- **Disable the Product if it is damaged.**
- **Use the Product only as specified or hazardous laser radiation exposure can occur.**
- **Do not look into the laser. Do not point laser directly at persons or animals or indirectly off reflective surfaces.**
- **Do not look directly into the laser with optical tools (for example, binoculars, telescopes, microscopes). Optical tools can focus the laser and be dangerous to the eye.**
- **Do not open the Product. The laser beam is dangerous to eyes. Have the Product repaired only through an approved technical site.**
- **Remove the batteries if the Product is not used for an extended period of time, or if stored in temperatures above 50 °C. If the batteries are not removed, battery leakage can damage the Product.**
- **Replace the batteries when the low battery indicator shows to prevent incorrect measurements.**

Symbols

The table below lists the symbols that can be used on the Product or in this document.

Symbol	Description
	Consult user documentation.
	WARNING. RISK OF DANGER.
	WARNING. LASER RADIATION. Risk of eye damage.
	Battery or battery compartment.
	Battery status.
	Conforms to European Union directives.
	Conforms to relevant Australian Safety and EMC standards.
	Conforms to relevant South Korean EMC standards.

Symbol	Description
	Measure.
	Clear. Off.
	Memory.
	Conforms to the Appliance Efficiency Regulation (California Code of Regulations, Title 20, Sections 1601 through 1608), for small battery charging systems.
	This product complies with the WEEE Directive marking requirements. The affixed label indicates that you must not discard this electrical/electronic product in domestic household waste. Product Category: With reference to the equipment types in the WEEE Directive Annex I, this product is classed as category 9 "Monitoring and Control Instrumentation" product. Do not dispose of this product as unsorted municipal waste.
	Indicates a Class 2 laser. DO NOT STARE INTO BEAM The following text may appear with the symbol on the product label: "IEC/EN 60825-1. Complies with 21 CFR 1040.10 and 1040.11 except for deviations pursuant to Laser Notice 50, dated June 24, 2007." In addition, the following pattern on the label will indicate wavelength and optical power: $\lambda = xxxnm, x.xxmW$.

Specifications

	417D	424D
Battery	2 x AAA 1.5 V NEDA 24A/IEC LR03	
Battery life	≤3000 measurements	≤5000 measurements
Temperature		
Operating	-10 °C to 50 °C (14 °F to 122 °F)	
Storage	-25 °C to 70 °C (-13 °F to 158 °F)	
Maximum relative humidity	85 % at -7 °C to 50 °C (20 °F to 120 °F)	

	417D	424D
Size (H x W x L)	≤12.7 cm x 5.6 cm x 3.3 cm (5.0 in x 2.2 in x 1.3 in)	
Weight (with batteries)	≤158 g (6 oz)	
Safety	IEC 62368-1:2014 Pollution Degree 2	IEC 61010-1: Pollution Degree 2
Ingress Protection Rating	IP54	
Laser	IEC 60825-1: Class 2, 635 nm, <1 mW	
Max output power	0.95 mW	
Wavelength	635 nm	
Pulse duration	>400 ps	
Pulse repetition frequency	320 MHz	
Beam divergence	0.16 mrad x 0.6 mrad	
Electromagnetic Compatibility (EMC)		
International	IEC 61326-1: Industrial Electromagnetic Environment CISPR 11: Group 1, Class A	
	<p><i>Group 1: Equipment has intentionally generated and/or uses conductively-coupled radio frequency energy that is necessary for the internal function of the equipment itself.</i></p> <p><i>Class A: Equipment is suitable for use in all establishments other than domestic and those directly connected to a low-voltage power supply network that supplies buildings used for domestic purposes. There may be potential difficulties in ensuring electromagnetic compatibility in other environments due to conducted and radiated disturbances.</i></p>	
Korea (KCC)	Class A Equipment (Industrial Broadcasting & Communication Equipment)	
	<p><i>Class A: Equipment meets requirements for industrial electromagnetic wave equipment and the seller or user should take notice of it. This equipment is intended for use in business environments and not to be used in homes.</i></p>	
USA (FCC)	47 CFR 15 subpart B. This product is considered an exempt device per clause 15.103.	