

123B/124B/125B

Industrial ScopeMeter®


Safety Information

Go to www.fluke.com to register your product and find more information.

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

Warning

To prevent possible electrical shock, fire, or personal injury:

- Read all safety information before you use the Product.
- Use the Product only as specified, or the protection supplied by the Product can be compromised.
- Carefully read all instructions.
- Do not apply more than one phase of a multiphase system simultaneously to any COM  (common) connection. All Common (COM) connections should be equipotential, as marked.
- 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.
- The battery door must be closed and locked before you operate the Product.
- Comply with local and national safety codes. Use personal protective equipment (approved rubber gloves, face protection, and flame-resistant clothes) to prevent shock and arc blast injury where hazardous live conductors are exposed.
- Do not apply more than the rated voltage, between the terminals or between each terminal and earth ground.

- Limit operation to the specified measurement category, voltage, or amperage ratings.
- Use Product-approved measurement category (CAT), voltage, and amperage rated accessories (probes, test leads, and adapters) for all measurements.
- Measure a known voltage first to make sure that the Product operates correctly.
- Use the correct terminals, function, and range for measurements.
- De-energize the circuit or wear personal protective equipment in compliance with local requirements before you apply or remove the flexible current probe from hazardous live conductors.
- Do not touch voltages > 30 V ac rms, 42 V ac peak, or 60 V dc.
- Do not use the Product around explosive gas, vapor, or in damp or wet environments.
- Do not use the Product if it operates incorrectly.
- Examine the case before you use the Product. Look for cracks or missing plastic. Carefully look at the insulation around the terminals.
- Do not use test leads if they are damaged. Examine the test leads for damaged insulation, exposed metal, or if the wear indicator shows. Check test lead continuity.
- Use only cables with correct voltage ratings.
- Connect the common test lead before the live test lead and remove the live test lead before the common test lead.
- Keep fingers behind the finger guards on the probes.
- Remove all probes, test leads, and accessories before the battery door is opened.
- Remove all probes, test leads, and accessories that are not necessary for the measurement.
- Do not exceed the Measurement Category (CAT) rating of the lowest rated individual component of a Product, probe, or accessory.
- Do not use a current measurement as an indication that a circuit is safe to touch. A voltage measurement is necessary to know if a circuit is hazardous.
- Disable the Product if it is damaged.
- Do not use the Product if it is damaged.
- Do not use the Product above its rated frequency.

- Do not use the Current Probe if it has damaged insulation, exposed metal, or if the wear indicator is visible.
- Do not wear loose-fitting clothing or jewelry and keep long hair tied back when near rotating machinery. Use approved eye protection and approved personal-protective equipment where necessary.

Symbols

Symbol	Description
	WARNING. RISK OF DANGER.
	WARNING. HAZARDOUS VOLTAGE. Risk of electric shock.
	Consult user documentation.
	Double Insulated
	Earth
	Equipotential
	Certified by CSA Group to North American safety standards.
	Conforms to European Union directives.
	Conforms to relevant Australian Safety and EMC standards.
	Battery Safety Approval
	Conforms to relevant South Korean EMC standards.
CAT III	Measurement Category III is applicable to test and measuring circuits connected to the distribution part of the building's low-voltage MAINS installation.
CAT IV	Measurement Category IV is applicable to test and measuring circuits connected at the source of the building's low-voltage MAINS installation.
	This Product contains a lithium-ion battery. Do not mix with the solid waste stream. Spent batteries should be disposed of by a qualified recycler or hazardous materials handler per local regulations. Contact your authorized Fluke Service Center for recycling information.
	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.

Safety Specifications

Temperature

Operating and charging	0 °C to 40 °C (32 °F to 104 °F)
Operating	0 °C to 50 °C (32 °F to 122 °F)
Storage	-20 °C to 60 °C (-4 °F to 140 °F)

Humidity

Operating

@ 0 °C to 10 °C
(32 °F to 50 °F)..... noncondensing

@ 10 °C to 30 °C
(50 °F to 86 °F)..... 95 %

@ 30 °C to 40 °C
(86 °F to 104 °F)..... 75 %

@ 40 °C to 50 °C
(104 °F to 122 °F)..... 45 %

Storage

@ -20 °C to 60 °C
(-4 °F to 140 °F) noncondensing

Altitude

Operating CAT III 600V 3 km (10 000 feet)

Operating CAT IV 600V 2 km (6 600 feet)

Storage 12 km (40 000 feet)

Safety

General..... IEC 61010-1: Pollution
Degree 2

Measurement IEC 61010-2-033: CAT IV
600 V / CAT III 750 V

Electromagnetic Compatibility (EMC)

International..... IEC 61326-1: Industrial
CISPR 11: Group 1,
Class A

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.

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.

Emissions that exceed the levels required by CISPR 11 can occur when the equipment is connected to a test object.

Korea (KCC) Class A Equipment
(Industrial Broadcasting &
Communication Equipment)

*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.*

USA (FCC) 47 CFR 15 subpart B. This
product is considered an
exempt device per clause
15.103.

Wireless Radio with Adapter

Frequency Range 2412 MHz to 2462 MHz

Output Power <100 mW

LIMITED WARRANTY AND LIMITATION OF LIABILITY

This Fluke product will be free from defects in material and workmanship for three years from the date of purchase. This warranty does not cover fuses, disposable batteries, or damage from accident, neglect, misuse, alteration, contamination, or abnormal conditions of operation or handling. Resellers are not authorized to extend any other warranty on Fluke's behalf. To obtain service during the warranty period, contact your nearest Fluke authorized service center to obtain return authorization information, then send the product to that Service Center with a description of the problem.

THIS WARRANTY IS YOUR ONLY REMEDY. NO OTHER WARRANTIES, SUCH AS FITNESS FOR A PARTICULAR PURPOSE, ARE EXPRESSED OR IMPLIED. FLUKE IS NOT LIABLE FOR ANY SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES OR LOSSES, ARISING FROM ANY CAUSE OR THEORY. Since some states or countries do not allow the exclusion or limitation of an implied warranty or of incidental or consequential damages, this limitation of liability may not apply to you.

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