

789/787B

ProcessMeter™

Safety Information



3-Year Limited Warranty.

See the Users Manual for the full warranty.

Go to www.fluke.com to register your Product, read the Users Manual, and find more information.

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

⚠⚠ Warnings

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

- **Read all safety information before you use the Product.**
- **Carefully read all instructions.**
- **Do not alter the Product and use only as specified, or the protection supplied by the Product can be compromised.**
- **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.**
- **Replace the batteries when the low battery indicator shows to prevent incorrect measurements.**
- **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.**

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Specifications are subject to change without notification.

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Fluke Corporation
P.O. Box 9090
Everett, WA 98206-9090
U.S.A.

Fluke Europe B.V.
P.O. Box 1186
5602 BD Eindhoven
The Netherlands

ООО «Флюк СИИЭС»
125167, г. Москва,
Ленинградский проспект дом 37,
корпус 9, подъезд 4, 1 этаж

- Do not apply more than the rated voltage, between the terminals or between each terminal and earth ground.
- Do not work alone.
- 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.
- 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.
- Keep fingers behind the finger guards on the probes.
- Only use probes, test leads, and accessories that have the same measurement category, voltage, and amperage ratings as the Product.
- Disconnect power and discharge all high-voltage capacitors before you measure resistance, continuity, capacitance, or a diode junction.
- Remove circuit power before you connect the Product in the circuit when you measure current. Connect the Product in series with the circuit.
- Do not use the HOLD function to measure unknown potentials. When HOLD is turned on, the display does not change when a different potential is measured.
- Do not put battery cells and battery packs near heat or fire. Do not put in sunlight.
- Replace a blown fuse with exact replacement only for continued protection against arc flash.
- Do not operate the Product with covers removed or the case open. Hazardous voltage exposure is possible.
- Use only specified replacement parts.
- Use only specified replacement fuses.
- Have an approved technician repair the Product.

Safety Specifications

Maximum Voltage between any Terminal and Earth Ground 1000 V

Frequency Overload

Protection 10^6 V-Hz max

Fuse Protection for

mA inputs 0.44 A, 1000 V, IR 10 kA

Temperature

Operating -20 °C to +55 °C

Storage -40 °C to +60 °C

Power

Battery Type IEC LR6 (AA Alkaline)

Quantity 4

Relative Humidity 95 % up to 30 °C, 75 % up to 40 °C,
45 % up to 50 °C, and 35 % up to 55 °C

Altitude

Operating ≤ 2000 m

Storage $\leq 12\,000$ m

Safety

General IEC 61010-1: Pollution Degree 2

Measurement IEC 61010-2-033: CAT IV 600 V /
CAT III 1000 V

Electromagnetic Compatibility (EMC)

International IEC 61326-1: Portable Electromagnetic
Environment IEC 61326-2-2
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.*

*Caution: This equipment is not intended for use in residential
environments and may not provide adequate protection to radio
reception in such environments.*














*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.Detailed Specifications

Symbols

Symbol	Description
	Consult user documentation.
	WARNING. HAZARDOUS VOLTAGE. Risk of electric shock.
	WARNING. RISK OF DANGER.
	AC (Alternating Current)
	DC (Direct Current)
	Double Insulated
	Fuse
	Battery
CAT II	Measurement Category II is applicable to test and measuring circuits connected directly to utilization points (socket outlets and similar points) of the low-voltage MAINS installation.
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.
	Conforms to European Union directives.
	Certified by CSA Group to North American safety standards.
	Conforms to relevant South Korean EMC standards.
IR	Minimum fuse interrupt rating.
	Conforms to relevant Australian EMC standards.
	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.