FLUKE

2082

Underground Utilities Locator
Safety Information



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

Go to www.fluke.com/productinfo to register your Product, read the Users Manual, and find more information.
A **Warning** identifies conditions and procedures that are dangerous to the user. A **Caution** identifies conditions and procedures that can cause damage to the Product or the equipment under test.

⚠⚠ Warning

To avoid the possibility of electric shock or personal injury:

- **Read all safety information before you use the Product.**
- **Do not alter the Product and use only as specified, or the protection supplied by the Product can be compromised.**
- **Carefully read all instructions.**
- **Do not use the Product if it operates incorrectly.**
- **Do not touch voltages >30 V ac rms, 42 V ac peak, or 60 V dc.**
- **Do not work alone.**
- **Limit operation to the specified measurement category, voltage, or amperage ratings.**
- **Do not exceed the Measurement Category (CAT) rating of the lowest-rated individual component of a Product, probe, or accessory.**

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- **Use Product-approved Measurement Category (CAT), voltage, and amperage-rated accessories (probes, test leads, and adapters) for all measurements.**
- **Do not make connections on hazardous live conductors in damp or wet environments.**
- **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 connect to live output terminals. The Product can supply voltages that can cause death. Standby mode is not sufficient to prevent electrical shock.**
- **Use the correct terminals, function, and range for measurements.**
- **Do not use the Product around explosive gas, vapor, or in damp or wet environments.**
- **Use only specified replacement fuses.**
- **Have an approved technician repair the Product.**
- **Disable the Product if it is damaged.**
- **Examine the case before you use the Product. Look for cracks or missing plastic. Carefully look at the insulation around the terminals.**
- **Replace a blown fuse with exact replacement only for continued protection against arc flash.**
- **Do not apply more than the rated voltage, between the terminals or between each terminal and earth ground.**
- **Do not use exposed metal BNC or banana plug connectors.**
- **Keep fingers behind the finger guards on the probes.**
- **Do not use test leads if they are damaged. Examine the test leads for damaged insulation.**
- **Use only current probes, test leads, and adapters supplied with the Product.**
- **Batteries contain hazardous chemicals that can cause burns or explode. If exposure to chemicals occurs, clean with water and get medical aid.**
- **Repair the Product before use if the battery leaks. Battery leakage may create a shock hazard or damage the Product.**
- **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 may result.**
- **The battery door must be closed and locked before you operate the Product.**
- **Do not disassemble or crush battery cells and battery packs.**

- **Do not put battery cells and battery packs near heat or fire. Do not put in sunlight.**
- **Remove all probes, test leads, and accessories before the battery door is opened.**
- **Use replacement cells that have closely-matched capacities, are of the same design, chemistry, age, and are from the same manufacturer. Mismatched batteries can lead to gas formation and subsequent cell rupture.**

Symbols

Symbol	Description
	WARNING. HAZARDOUS VOLTAGE. Risk of electric shock.
	WARNING. RISK OF DANGER.
	Consult user documentation.
	Double Insulated
	Earth (Ground).
	Fuse.
	Battery
	Low battery indication
CE	Conforms to European Union directives.
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 complies with the WEEE Directive and its marking requirements. The affixed label indicates that you must not discard this electrical/electronic product in domestic household waste. Do not dispose of this product as unsorted municipal waste. For information about take-back and recycling programs available in your country, see the Fluke website.

General Specifications

Maximum voltage between any terminal and earth ground ..... 600 V

Temperature

Operating ..... -20 °C to 50 °C (-4 °F to 122 °F)
0 % to 90 %, 5 °C to 30 °C
0 % to 75 %, 30 °C to 40 °C
0 % to 45 %, 40 °C to 50 °C

Storage ..... -40 °C to 60 °C (-40 °F to 140 °F)

Humidity (without condensation) ..... 0 % to 90 %, 5 °C to 30 °C
0 % to 75 %, 30 °C to 40 °C
0 % to 45 %, 40 °C to 50 °C

Altitude ..... ≤2000 m (≤6561 ft)

Ingress protection ..... IEC 60529: IP54 (non operating)

Safety compliance

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

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 use conductively coupled radio frequency energy which is necessary for the internal functioning of the equipment itself.
Class A: Equipment is suitable for use in all establishments other than domestic and those directly connected to a lowvoltage 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.

Korea (KCC) ..... Class A equipment (Industrial Broadcast & Communications 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.

2082T Transmitter

Power supply .....8 D, IEC LR20

Fuse protection.....0.5 A, 1000V, IR 30kA, Φ6.3x32 mm, Fast.

Safety compliance

Measurement ..... IEC 61010-2-030: CAT IV 600 V

2082R Receiver

Power supply .....6 AA, IEC LR6

Safety compliance

Measurement ..... IEC 61010-2-030: CAT IV 600 V

2082BTR Receiver

Power supply .....6 AA, IEC LR6

Safety compliance

Measurement ..... IEC 61010-2-030: CAT IV 600 V

Electromagnetic compatibility (EMC).....USA (FCC) 47 CFR 15 Subpart C Sections 15.203, 15.209, 15.249

Wireless Radio

Frequency Range. ..... 2400 MHz to 2483.5 MHz

Output Power ..... <100 mW

SIMPLIFIED EU DECLARATION OF CONFORMITY

Hereby, Fluke declares that the radio equipment contained in this Product is in compliance with Directive 2014/53/EU. The full text of the EU declaration is available at the following internet address: www.fluke.com/red

AF2082 A-Frame

Power supply .....6 AA, IEC LR6

SC2082 Signal Clamp

Safety compliance

Measurement ..... IEC 61010-2-032: CAT IV 600 V, 100 A.

TL2082 Test Lead Set

Safety compliance

Measurement ..... IEC 61010-031: CAT IV 600 V, 10 A.