

Fluke 1623-2 and 1625-2

GEO Earth Ground Testers

Technical Data

The new Fluke 1623-2 and 1625-2 GEO Earth Ground Testers offer data storage and download capabilities via USB port. World class accessories will simplify and speed up testing time.

Product features:

- 3- and 4-pole Fall of Potential, earth resistance loop testing
- 4-pole Soil Resistivity testing
- Selective earth ground rod testing using 1 clamp
- Stakeless earth ground rod testing using 2 clamps
- IP56 rated for outdoor use
- Professional carrying case
- USB data storage and transfer

In addition, the Fluke 1625-2 offers these advanced features:

- Automatic Frequency Control (AFC)—identifies existing interference and chooses a measurement frequency to minimise its effect, providing more accurate earth ground value
- R* measurement—calculates earth ground impedance at 55 Hz to more accurately reflect the earth ground resistance that a fault-to-earth ground would see
- Adjustable limits—for quicker testing

Stakeless testing

The Fluke 1623-2 and 1625-2 earth ground testers are able to measure earth ground loop resistances using only clamps. With this test method, two clamps are placed around the earth ground

rod and each are connected to the tester. No earth ground stakes are used at all. A known, fixed voltage is induced by one clamp and the current is measured using the second clamp. Then the tester automatically determines the resistance of the earth ground rod.

This test method only works if a bonded earth ground system exists for the building or structure under test, but most are. If there is only one path to ground, like at many residential applications, the Stakeless method will not provide an acceptable value and the Fall of Potential test method must be used.

With Stakeless testing, the earth ground rod does not need to be disconnected—leaving the bonded earth ground system intact during test. Gone are the days of spending time placing and connecting stakes for each earth ground rod on your system—a major time saver. You can also perform earth ground tests in places you've not considered before: inside buildings, power pylons, or anywhere you don't have access to soil.



The most complete testers

The Fluke 1623-2 and 1625-2 are distinctive earth ground testers that can perform all four types of earth ground measurement:

- 3- and 4-Pole Fall of Potential (using stakes)
- 4-Pole Soil Resistivity testing (using stakes)
- Selective testing (using 1 clamp and stakes)
- Stakeless testing (using 2 clamps only)

The testers are also easy to use. For each test, the testers inform you which stakes or clamps need to be connected and the large rotary switch can be used even with a gloved hand.

The complete model kit comes with the 1623-2 or 1625-2 tester, test leads, 4 earth ground stakes, 3 cable reels with wire, 2 clamps, batteries, and manual—all inside a professional Fluke carrying case.

1623-2 Specifications

General

| | |
|---|---|
| Display: 1999 digit LCD | Display with special symbols, digit height 25 mm |
| User interface | Instant measurement through TURN and START one button concept. The only operating elements are rotary switch and START button |
| Robust, water and dust resistant | Instrument is designed for tough environmental conditions (rubber protective cover, IP56) |
| Memory | Internal memory storage up to 1500 records accessible via USB port |

Temperature ranges

| | |
|------------------------------|------------------|
| Operating temperature | -10 °C to 50 °C |
| Storage temperature | -30 °C to +60 °C |

| | |
|--------------------------------|---|
| Temperature coefficient | ± 0.1 % of reading/°C < 18 °C > 28 °C |
| Intrinsic error | Refers to the reference temperature range and is guaranteed for 1 year |
| Operating error | Refers to the operating temperature range and is guaranteed for 1 year |
| Climatic class | C1 (IEC 654-1), -5 °C to +45 °C, 5 % to 95 % RH |
| Protective type | IP56 for case, IP40 for battery door according to EN60529 |
| Safety | Protection by double and/or reinforced insulation. max. 50 V to earth. IEC61010-1: CAT none, Pollution degree 2 |
| EMC (Emission Immunity) | IEC61326-1: Portable |
| Quality system | Developed, designed and manufactured according to DIN ISO 9001 |
| External voltage | V ext, max = 24 V (dc, ac < 400 Hz), measurement inhibited for higher values |
| V ext rejection | > 120 dB (16 ² /3, 50, 60, 400 Hz) |
| Measuring time | Typical 6 sec. |
| Max. overload | 250 V rms (pertains to misuse) |
| Auxiliary power | 6 x 1.5 V alkaline (type AA LR6) |
| Battery life span | Typical > 3,000 measurements |
| Dimensions (WxHxD) | 250 mm x 133 mm x 187 mm |
| Weight | 1.1 kg including batteries 7.6 kg including accessories and batteries in carrying case |

RA 3-pole ground resistance measurement (IEC 1557-5)

| Switch position | Resolution | Measuring range | Accuracy | Operating error |
|-----------------------|-----------------|---------------------|-------------------|-------------------|
| R _A 3-pole | 0.001 Ω to 10 Ω | 0.020 Ω to 19.99 kΩ | ± (2 % rdg + 3 d) | ± (5 % rdg + 3 d) |

For 2-pole measurements connect terminals H and S with the supplied connector cable.

Measuring principle: Current and voltage measurement

| | |
|--|--|
| Measuring voltage | $V_m = 48 \text{ V ac}$ |
| Short-circuit current | $> 50 \text{ mA}$ |
| Measure frequency | 128 Hz |
| Probe resistance (R_S) | Max 100 k Ω |
| Auxiliary earth electrode resistance (R_H) | Max. 100 k Ω |
| Additional error from R_H and R_S | $R_H[\text{k}\Omega] \cdots R_S[\text{k}\Omega] / R_A[\Omega] \cdots 0.2 \%$ |
| Monitoring of R_S and R_H with error indicator | |
| Automatic range selection | |
| Measurement is not performed if the current through the current clamp is too low | |

 R_A 4-pole ground resistance measurement (IEC 1557-5)

| Switch position | Resolution | Measuring range | Accuracy | Operating error |
|-----------------|-------------------------------|------------------------------------|--|--|
| R_A 4-pole | 0.001 Ω to 10 Ω | 0.020 Ω to 19.99 k Ω | $\pm (2 \% \text{ rdg} + 3 \text{ d})$ | $\pm (5 \% \text{ rdg} + 3 \text{ d})$ |

Measuring principle: Current/voltage measurement

| | |
|--|--|
| Measuring voltage | $V_m = 48 \text{ V ac}$ |
| Short-circuit current | $> 50 \text{ mA}$ |
| Measuring frequency | 128 Hz |
| Probe resistance ($R_S + R_{ES}$) | Max. 100 k Ω |
| Auxiliary earth electrode resistance (R_H) | Max. 100 k Ω |
| Additional error from R_H and R_S | $R_H[\text{k}\Omega] \cdots R_S[\text{k}\Omega] / R_A[\Omega] \cdots 0.2 \%$ |
| Monitoring of R_S and R_H with error indicator | |
| Automatic range selection | |

 R_A 3-pole selective ground resistance measurement with current clamp ($R_A \gg C$)

| Switch position | Resolution | Measuring range | Accuracy | Operating error |
|----------------------|-------------------------------|------------------------------------|--|---|
| R_A 3-pole $\gg C$ | 0.001 Ω to 10 Ω | 0.020 Ω to 19.99 k Ω | $\pm (7 \% \text{ rdg} + 3 \text{ d})$ | $\pm (10 \% \text{ rdg} + 5 \text{ d})$ |

Measuring principle: Current/voltage measurement (with external current clamp)

| | |
|--|-------------------------|
| Measuring voltage | $V_m = 48 \text{ V ac}$ |
| Short-circuit current | $> 50 \text{ mA}$ |
| Measuring frequency | 128 Hz |
| Probe resistance (R_S) | Max. 100 k Ω |
| Auxiliary earth electrode resistance (R_H) | Max. 100 k Ω |
| Monitoring of R_S and R_H with error indicator | |
| Automatic range selection | |
| Measurement is not performed if the current through the current clamp is too low | |

 R_A 4-pole selective ground resistance measurement with current clamp ($R_A \gg C$)

| Switch position | Resolution | Measuring range | Accuracy | Operating error |
|----------------------|-------------------------------|------------------------------------|--|---|
| R_A 4-pole $\gg C$ | 0.001 Ω to 10 Ω | 0.020 Ω to 19.99 k Ω | $\pm (7 \% \text{ rdg} + 3 \text{ d})$ | $\pm (10 \% \text{ rdg} + 5 \text{ d})$ |

Measuring principle: Current/voltage measurement (with external current clamp)

| | |
|--|-------------------------|
| Measuring voltage | $V_m = 48 \text{ V ac}$ |
| Short-circuit current | $> 50 \text{ mA}$ |
| Measuring frequency | 128 Hz |
| Probe resistance (R_s) | Max. 100 k Ω |
| Auxiliary earth electrode resistance (R_H) | Max. 100 k Ω |
| Monitoring of R_s and R_H with error indicator | |
| Automatic range selection | |
| Measurement is not performed if the current through the current clamp is too low | |

Stakeless ground loop measurement (ⓘ)

| Switch position | Resolution | Measuring range | Accuracy | Operating error |
|-----------------|--------------------------------|----------------------------------|--|---|
| R_A 4-pole ⓘ | 0.001 Ω to 0.1 Ω | 0.020 Ω to 199.9 Ω | $\pm (7 \% \text{ rdg} + 3 \text{ d})$ | $\pm (10 \% \text{ rdg} + 5 \text{ d})$ |

Measuring principle: Stakeless measurement of resistance in closed loops using two current transformers

| | |
|-----------------------------|--|
| Measuring voltage | $V_m = 48 \text{ V ac (primary)}$ |
| Measuring frequency | 128 Hz |
| Noise current (I_{EXT}) | Max. $I_{EXT} = 10 \text{ A (ac)}$ ($R_A < 20 \Omega$) |
| | Max. $I_{EXT} = 2 \text{ A (ac)}$ ($R_A > 20 \Omega$) |

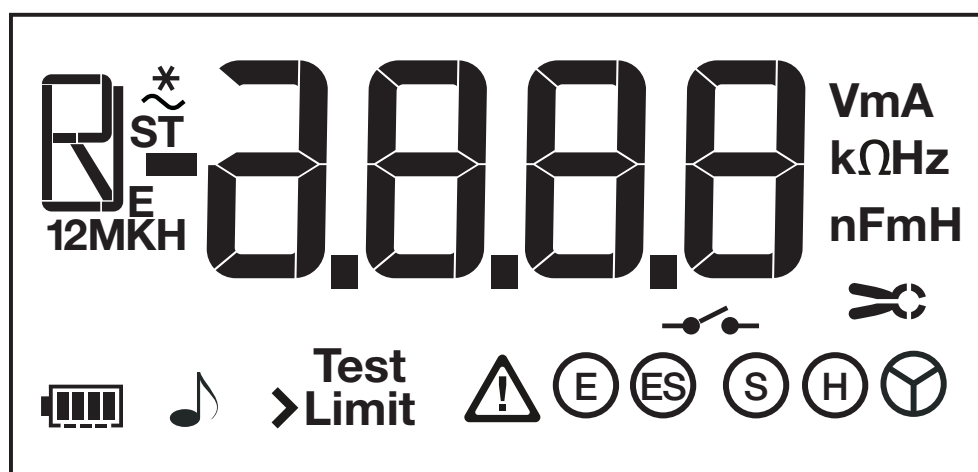
Automatic range selection

The information regarding stakeless ground loop measurements is only valid when used in conjunction with the recommended current clamps at the minimum distance specified.

1625-2 Specifications

General

| | |
|---------------------------|--|
| Memory | Internal memory storage up to 1500 records accessible via USB port |
| Measuring function | Interference voltage and frequency, earthing resistance 3- and 4-pole with/without clip-on current transformer, resistance 2-pole with ac, 2- and 4-pole with dc |
| Display | 4 digit (2999 Digit) - 7 segment liquid crystal display, with improved visibility |
| Operation | Central rotary switch and function keys |



Temperature ranges

| | |
|------------------------------------|-----------------|
| Operating temperature range | -10 °C to 50 °C |
| Storage temperature range | -30 °C to 60 °C |

| | |
|--------------------------------|--|
| Temperature coefficient | ± 0.1 % of range/± 0.1 % of reading/°C <18 °C >28 °C |
|--------------------------------|--|

| | |
|---------------------------------|--|
| Type of protection | IP56 for case, IP40 for battery door according to EN60529 |
| Max voltage | Δ socket \rightarrow to socket $\text{E} \text{ ES } \text{S} \text{ H}$ $U_{ms} = 0 \text{ V}$ Sockets "E ES S H" to each other in any combination, max. $U_{ms} = 250 \text{ V}$ (pertains to misuse) |
| Safety: | Protection by double and/or reinforced insulation. Max. 50 V to earth per IEC61010-1. CAT none, Pollution degree 2 |
| EMC (Emission Immunity) | IEC61326-1: Portable |
| Quality standard | Developed, designed and manufactured to comply with DIN ISO 9001 |
| External field influence | Complies with DIN 43780 (8/76) |
| Auxiliary power | 6 x 1.5 V alkaline (IEC LR6 or type AA) |
| Battery life span | With IEC LR6/type AA: typ. 3,000 measurements ($R_E + R_H \leq 1 \text{ k}\Omega$) With IEC LR6/type AA : typ. 6,000 measurements ($R_E + R_H > 10 \text{ k}\Omega$) |
| Dimensions (WxHxD) | 250 mm x 133 mm x 187 mm |
| Weight | $\leq 1.1 \text{ kg}$ (2.43 lb) without accessories 7.6 kg (16.8 lb) including accessories and batteries in carrying case |
| Case material | Polyester |

Measurement of interference voltage dc + ac (U_{st})

| Measuring Limits of error: method | | Fullwave rectification | | |
|-----------------------------------|---------------------------|------------------------|----------------------------|---|
| Measuring Range | Display Range | Resolution | Frequency Range | Limits of Error |
| 1 V to 50 V | 0.0 V to 50 V | 0.1 V | dc/ac 45 Hz to 400 Hz sine | $\pm (5 \% \text{ of rdg} + 5 \text{ digit})$ |
| Measuring sequence | approx. 4 measurements/s | | | |
| Internal resistance | approx. 1.5 M Ω | | | |
| Max. overload | $U_{rms} = 250 \text{ V}$ | | | |

Measurement of interference frequency (F)

| Measuring method | Measurement of oscillation period of the interference voltage | | | |
|------------------|---|----------------|-------------|---|
| Measuring Range | Display Range | Resolution | Range | Accuracy |
| 6.0 Hz to 400 Hz | 16.0 Hz to 299.9 Hz to 999 Hz | 0.1 Hz to 1 Hz | 1 V to 50 V | $\pm (1 \% \text{ of rdg} + 2 \text{ digit})$ |

Earthing resistance (R_E)

| | |
|-----------------------|---|
| Measuring method | Current and voltage measurement with probe as IEC61557-5 |
| Open circuit voltage | 20/48 V, ac |
| Short circuit current | 250 mA ac |
| Measuring frequency | 94, 105, 111, 128 Hz selected manually or automatic. (AFC) 55 Hz in function R* |
| Noise rejection | 120 dB ($16^{2/3}$, 50, 60, 400 Hz) |
| Max. overload | $U_{rms} = 250 \text{ V}$ |

Electrical measurement specifications

| Intrinsic error or influence quantity | Reference conditions or specified operating range | Designation code | Requirements or test in accordance with the relevant parts of IEC 1557 | Type of test |
|---|---|---|--|--------------|
| Intrinsic error | Reference conditions | A | Part 5, 6.1 | R |
| Position | Reference position $\pm 90^\circ$ | E1 | Part 1, 4.2 | R |
| Supply voltage | At the limits stated by the manufacturer | E2 | Part 1, 4.2, 4.3 | R |
| Temperature | 0 °C and 35 °C | E3 | Part 1, 4.2 | T |
| Series interference voltage | See 4.2 and 4.3 | E4 | Part 5, 4.2, 4.3 | T |
| Resistance of the probes and auxiliary earth electrodes | 0 to 100 x R_A but $\leq 50 \text{ k}\Omega$ | E5 | Part 5, 4.3 | T |
| System frequency | 99 % to 101 % of the nominal frequency | E7 | Part 5, 4.3 | T |
| System voltage | 85 % to 110 % of the nominal voltage | E8 | Part 5, 4.3 | T |
| Operating error | $B = \pm A + 1,15 \sqrt{E_1^2 E_2^2 E_3^2 E_4^2 E_5^2 E_7^2 E_8^2}$ | | Part 5, 4.3 | R |
| A = intrinsic error En = variations R = routine test T = type test | | $B[\%] = \pm \frac{B}{\text{fiducial value}} \times 100 \%$ | | |

| Measuring Range | Display Range | Resolution | Accuracy | Operating Error |
|-------------------|----------------------|------------|----------------------------|----------------------------|
| 0.020 Ω to 300 kΩ | 0.001 Ω to 2.999 Ω | 0.001 Ω | ± (2 % of rdg + 2 digit) | ± (5 % of rdg + 5 digit) |
| | 3.00 Ω to 29.99 Ω | 0.01 Ω | | |
| | 30.0 Ω to 299.9 Ω | 0.1 Ω | | |
| | 0.300 kΩ to 2.999 kΩ | 1 Ω | | |
| | 3.00 kΩ to 29.99 kΩ | 10 Ω | | |
| | 30.0 kΩ to 299.9 kΩ | 100 Ω | | |

| | |
|--|---|
| Measuring time | typ. 8 sec. with a fixed frequency 30 sec. max. with AFC and complete cycle of all measuring frequencies |
| Additional error because of probe-and auxiliary earth electrode resistance | $\frac{R_H (R_S + 2000 \Omega)}{R_E} \times 1.25 \times 10^{-6} \% + 5 \text{ digits}$ |
| Measuring error of RH and RS | typ. 10 % of $R_E + R_S + R_H$ |
| Max. probe resistance | ≤ 1 MΩ |
| Max. auxiliary earth electrode resistance | ≤ 1 MΩ |

Automatic check if error is kept within the limits required by IEC61557-5.

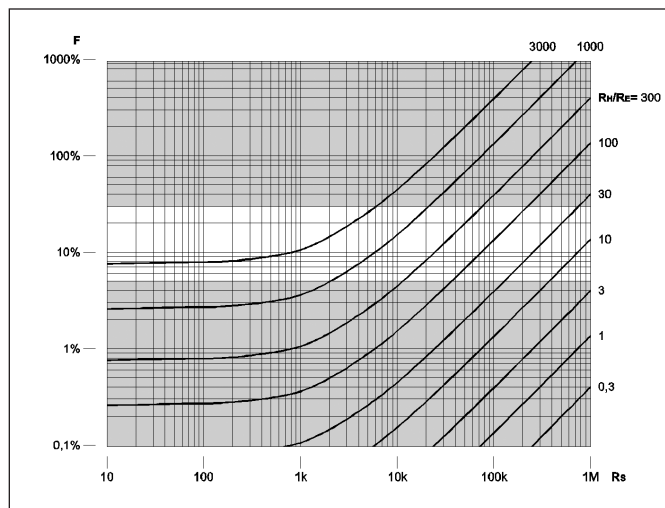
If after a measurement of probe-, auxiliary earth electrode- and earthing resistance, a measurement error of higher than 30 % is assumed because of the influencing conditions (see diagram), the display shows a warning symbol Δ and a notice that R_S or R_H are too high.

Automatic switchover of measuring resolution in dependence to auxiliary earth electrode resistance R_H

| RH with $U_{\text{meas}} = 48 \text{ V}$ | RH with $U_{\text{meas}} = 20 \text{ V}$ | Resolution |
|--|--|------------|
| < 300 Ω | < 250 Ω | 1 mΩ |
| < 6 kΩ | < 2.5 kΩ | 10 mΩ |
| < 60 kΩ | < 25 kΩ | 100 mΩ |
| < 600 kΩ | < 250 kΩ | 1 Ω |

Selective measurement of the earthing resistance ($R_E \gg C$)

| | |
|-----------------------|--|
| Measuring method | Current and voltage measurement with probe as per EN61557-5 and current measurement in the individual branch with additional current transformer (patent applied for). |
| Open circuit voltage | 20/48 V ac |
| Short circuit current | 250 mA ac |
| Measuring frequency | 94, 105, 111, 128 Hz selected manually or automatically (AFC), 55 Hz (R^*) |
| Noise rejection | 120 dB ($16^{2/3}$, 50, 60, 400 Hz) |
| Max. overload | Max. $U_{\text{rms}} = 250 \text{ V}$ (measurement will not be started) |



| Measuring Range | Display range | Resolution | Intrinsic error* | Operating error* |
|------------------|-------------------|------------|--------------------------|---------------------------|
| 0.020 Ω to 30 kΩ | 0.001 to 2.999 Ω | 0.001 Ω | ± (7 % of rdg + 2 digit) | ± (10 % of rdg + 5 digit) |
| | 3.00 to 29.99 Ω | 0.01 Ω | | |
| | 30.0 to 299.9 Ω | 0.1 Ω | | |
| | 0.300 to 2.999 kΩ | 1 Ω | | |
| | 3.00 to 29.99 kΩ | 10 Ω | | |

* With recommended current clamps/transformers.

| | | |
|---|--|-----------------------------|
| Additional error because of probe- and auxiliary earth typ. electrode resistance | $\frac{R_H (R_S + 2000 \Omega)}{R_{ETOTAL}} \times 1.25 \times 10^{-6} \% + 5 \text{ digits}$ | |
| Measuring error of R_H and R_S | Typ. of 10 % of $R_{ETOTAL} + R_S + R_H$ | |
| Measuring time | Typ. 8 sec. with a fixed frequency 30 sec. max. with AFC and complete cycle of all measuring frequencies | |
| Minimal current in single branch to be measured | 0.5 mA | With transformer (1000:1) |
| | 0.1 mA | With transformer (200:1) |
| Max. interference current through transformer | 3 A | With a transformer (1000:1) |

Resistance measurement (R~)

| | |
|------------------------------|---|
| Measuring method | Current and voltage measurement |
| Measuring voltage | 20 V ac, square pulse |
| Short circuit current | > 250 mA ac |
| Measuring frequency | 94, 105, 111, 128 Hz selected manually or automatically (AFC) |

| Measuring range | Display range | Resolution | Accuracy | Operating errors |
|----------------------------------|-------------------------------------|----------------|---|---|
| 0.020 Ω to 300 k Ω | 0.001 Ω to 2.999 Ω | 0.001 Ω | $\pm (2 \% \text{ of rdg} + 2 \text{ digit})$ | $\pm (5 \% \text{ of rdg} + 5 \text{ digit})$ |
| | 3.0 Ω to 29.99 Ω | 0.01 Ω | | |
| | 30 Ω to 299.9 Ω | 0.1 Ω | | |
| | 300 Ω to 2999 Ω | 1 Ω | | |
| | 3.0 k Ω to 29.99 k Ω | 10 Ω | | |
| | 30.0 k Ω to 299.9 k Ω | 100 Ω | | |

| | |
|----------------------------------|--|
| Measuring time | typ. 6 sec. |
| Max. interference voltage | 24 V, with higher voltages measurement will not be started |
| Max overload | U_{rms} max. = 250 V |


Resistance measurement (R---)

| | |
|------------------------------------|--|
| Measuring method | current- voltage measurement as per IEC61557-4 possible |
| Open circuit voltage | 20 V dc |
| Short circuit current | 200 mA dc |
| Formation of measured value | with 4-pole measurement wires on H, S, ES can be extended without additional error. Resistances > 1 Ω in wire E can cause additional error of 5m Ω/Ω . |

| Measuring range | Display range | Resolution | Accuracy | Operating error |
|--------------------------------|----------------------------------|----------------|---|---|
| 0.020 Ω to 3 k Ω | 0.001 Ω to 2.999 Ω | 0.001 Ω | $\pm (2 \% \text{ of rdg} + 2 \text{ digit})$ | $\pm (5 \% \text{ of rdg} + 5 \text{ digit})$ |
| | 3.0 Ω to 29.99 Ω | 0.01 Ω | | |
| | 30.0 Ω to 299.9 Ω | 0.1 Ω | | |
| | 300 Ω to 2999 Ω | 1 Ω | | |

| | |
|----------------------------------|---|
| Measuring sequence | Approx. 2 measurements/s |
| Measuring time | Typ. 4 sec. incl. reversal of polarity (2-pole or 4-pole) |
| Max. interference voltage | ≤ 3 V ac or dc, with higher voltages measurement will not be started |
| Max inductivity | 2 Henry |
| Max. overload | $U_{rms} = 250$ V |

Compensation of lead resistance (R_k)

| | |
|--|---|
| Compensation of lead resistance (R_k) can be switched on in functions R_E 3-pole, R_E 4-pole  , R_{\sim} , and R_{\equiv} 2-pole | |
| Formation of measured value | $R_{\text{display}} = R_{\text{measured}} - R_{\text{compensated}}^*$ |

* Value of setpoint entry $R_k = 0.000 \Omega$, variable from 0.000 to 29.99 Ω by means of measuring adjustment.

Stakeless ground loop measurement ()

| Switch position | Resolution | Measuring range | Accuracy | Operating error |
|-----------------|--------------------------------|---------------------------------|--|---|
| R_A 4-pole | 0.001 Ω to 0.1 Ω | 0.02 Ω to 199.9 Ω | $\pm (7 \% \text{ rdg} + 3 \text{ d})$ | $\pm (10 \% \text{ rdg} + 5 \text{ d})$ |

Measuring principle: Stakeless measurement of resistance in closed loops using two current transformers

| | |
|--|---|
| Measuring voltage | $V_m = 48 \text{ V ac (primary)}$ |
| Measuring frequency | 128 Hz |
| Noise current (I_{EXT}) | Max. $I_{\text{EXT}} = 10 \text{ A (ac)}$ ($R_A < 20 \Omega$) |
| | Max. $I_{\text{EXT}} = 2 \text{ A (ac)}$ ($R_A > 20 \Omega$) |

Automatic range selection

The information regarding stakeless ground loop measurements is only valid when used in conjunction with the recommended current clamps at the minimum distance specified.

Selection guide by user

| | Field Service Technician | Industrial Maintenance Technician | Power Utilities and Telecom |
|--------------|--------------------------|-----------------------------------|-----------------------------|
| Fluke 1623-2 | • | • | |
| Fluke 1625-2 | | • | • |

Standard earth ground test methods

| | Fall of Potential | | Selective | Stakeless |
|--------------|-------------------|-------------|-----------|-----------|
| | 3-pole | 4-pole/soil | 1 clamp | 2 clamps |
| Fluke 1623-2 | • | • | • | • |
| Fluke 1625-2 | • | • | • | • |

Ordering information

| | |
|------------------|--|
| Fluke-1623-2 Kit | Basic GEO Earth Ground Tester Kit |
| Fluke-1623-2 | Basic GEO Earth Ground Tester |
| EI-1623 | Selective/Stakeless Clamp Set for 1623 |
| Fluke-1625-2 Kit | Advanced GEO Earth Ground Tester Kit |
| Fluke-1625-2 | Advanced GEO Earth Ground Tester |
| EI-1625 | Selective/Stakeless Clamp Set for 1625 |

Optional accessories

| | |
|-------------------|---|
| ES-162P3-2 | Stake Set for 3-Pole Measurement |
| ES-162P4-2 | Stake Set for 4-Pole Measurement |
| EARTH STAKE | Ground/Earth Stake |
| CABLE REEL 25M BL | Ground/Earth Cable Reel 25 m (81.25 ft) |
| CABLE REEL 25M GR | Ground/Earth Cable Reel 25 m (81.25 ft) |
| CABLE REEL 50M RD | Ground/Earth Cable Reel 50 m (162.5 ft) |
| EI-162BN | 320 mm (12.6 in) Split Core Transformer |
| EI-162X | Clip-on Current Transformer (Sensing) with Shielded Cable Set |
| EI-162AC | Clip-on Current Transformer (Inducing) |



Fluke. *Keeping your world up and running.®*

Fluke Corporation
PO Box 9090, Everett, WA 98206 U.S.A.

Fluke Europe B.V.
PO Box 1186, 5602 BD
Eindhoven, The Netherlands

For more information call:
Fluke Australia
Unit 16/7 Anella Avenue
Castle Hill, NSW, 2154
Australia
Phone: 1300 1 FLUKE (35853)
Fax: +61 2 8850 3300
Email: auinfo@fluke.com
Website: www.fluke.com.au

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