BEHA·AMPROBE®

# Telaris ProInstall-100-CH, and ProInstall-200-CH

## Multifunction Electrical Installation Tester Series

### Testers Verify the Safety of Electrical Installations Quickly and Accurately

The Telaris® ProInstall series are rugged, light weight tools that verify the integrity of electrical installations in residential, commercial, and industrial environments.

The Series features an easy-to-use, intuitive interface and a large backlight LC-display that allows for easy viewing across a wide range of angles, allowing electrical contractors to work efficiently right away, with a rotary dial knob that clearly indicates which function has been selected. The easy to read, large backlight LC-display allows for easy viewing across a wide range of angles.

The ProInstall-200-CH adds measurement of earth ground resistance (with rod attachment), and Type B (DC sensitive) RCDs. It also features automatic RCD test sequencing to speed testing and a 3-level internal memory storage that can collect more than 1000 values. The ProInstall-200-CH is a complete tester for advanced users

## Telaris Proinstall Series Features

- **Lightweight and compact** for portability
- **Simple, intuitive interface**
- **Auto-sequence measurements** allow more efficient testing (ProInstall-200-CH only)
- **Fast, high current loop test**
- **No trip loop test**: does not trip RCDs
- **Easy to read, large backlight LC-display**
- **Data logging capabilities** with PC software
- **Tests DC sensitive RCDs (type B)** (ProInstall-200-CH only)
- **Tests electrical installations per regulatory standards:** NIN 2015, SN 411000, HD 60364-6, IEC 60364-6
- **Safety rated to:** CAT III 500V, CAT IV 300V
- **Insulation resistance measurements** up to 1000V DC
- **Low Ohm resistance**
- **Loop impedance**
- **Earth ground resistance** (ProInstall-200-CH only)
- **Test DC sensitive RCDs:** Type A (both models) and Type B (ProInstall-200-CH only)
- **Phase sequence**


DUAL RATED Electrical Safety CAT II 500 V CAT III 300 V

**Telaris ProInstall-200-CH**
Multifunction Installation Tester
w/type-B RCD & Earth Test

CE

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# Features and Highlights

**Practical rotary dial**
Intuitive user interface ensures you can get to work quickly and efficiently.


**Large LC-display**
Easy-to-read, backlight LCD and large viewing angle.

**Test probe with test button**
It is possible to initiate a measurement even in difficult-to-reach areas. This test probe with test button is supplied with power by the meter itself, ensuring it is always ready for use (No additional batteries required.)


**Easy to use**
Select all tests according to the same pattern. First, select your required test using the switch position, then enter the secondary settings using the quick access buttons (F1-F4). To start, press the test button.

**Telaris ProInstall-100**
Multifunction Installation Tester

The everyday tester for electrical installers. Ideal for domestic applications. Covers the basic requirements for testing.

**Telaris ProInstall-200**
Multifunction Installation Tester w/type-B RCD & Earth Test

The ideal tester for professionals with RCD type B, earth resistance and additional memory, an ideal tester for professional electricians working in both domestic and commercial applications.

| Features | ProInstall-100-CH | ProInstall-200-CH |
|---|---|---|
| **Voltage & frequency display** | • | • |
| **Low Ohm resistance** | • | • |
| **Insulation resistance** | • | • |
| **Loop/line impedance** | • | • |
| **Loop impedance without tripping RCDs** | • | • |
| **PSC** (short-circuit current) | • | • |
| **RCD trip time** | • | • |
| **RCD trip current** (ramp function) | • | • |
| **Automatic RCD test sequence** | | • |
| **Test AC and pulsed AC sensitive RCDs** (Type AC, type A, type F, type G/R) | • | • |
| **Test smooth DC sensitive RCDs** (Type B, B+) | | • |
| **Earth resistance with rods** | | • |
| **Phase sequence test** | • | • |
| **Illuminated display** | • | • |
| **Memory** | • | • |

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# Detailed Specifications

**ProInstall-100-CH/ProInstall-200-CH**

## AC Voltage Measurement L-N, L-PE , N-PE

| Display range | Resolution | Intrinsic accuracy 50Hz – 60hz | Measurement range | Operating error | Input impedance | Overload protection |
|---|---|---|---|---|---|---|
| 0 - 500V | 0,1V | ± (2% + 2D) | 50 – 500Vac | ± (3% + 3D) | 3,3MΩ / 360 kΩ | 600 Vrms |

## Low Ohm resistance Measurement

| Display range (auto-ranging) | Resolution | Intrinsic accuracy | Measurement range | Operating error | Test current | Open circuit voltage |
|---|---|---|---|---|---|---|
| 0 - 20 Ω | 0,01 Ω | ± (3% + 3D) | 0,30 - 2000 | ± (10% + 3D) | > 200 mA for Rlo < 2 Ohms | > 4V |
| 200 Ω | 0,1 Ω | | | | | |
| 2000 Ω | 1 Ω | | | | | |

## Insulation Resistance Measurement

| Test voltage | Display range | Resolution | Test current | Intrinsic accuracy | Measurement range | Operating error | Accuracy of test voltage at max. 1mA load |
|---|---|---|---|---|---|---|---|
| 100 V | 0 MΩ to 20 MΩ<br>20 MΩ to 100 MΩ | 0,01 MΩ<br>0,1 MΩ | 1 mA @ 100 kΩ | ± (5% + 5 dgt.) | 0,1 MΩ to 20 MΩ<br>20 MΩ to 200 MΩ | ± (12% + 3D) | +20%, -0% |
| 250 V | 0 MΩ to 20 MΩ<br>20 MΩ to 200 MΩ | | 1 mA @ 250 kΩ | | 0,25 MΩ to 20 MΩ<br>20 MΩ to 200 MΩ | | |
| 500 V | 0 MΩ to 20 MΩ<br>20 MΩ to 200 MΩ<br>200 MΩ to 500 MΩ | 0,01 MΩ<br>0,1 MΩ<br>1 MΩ | 1 mA @ 500 kΩ | ± (5% + 5 dgt.),<br>For R > 200 MΩ<br>±10% | 0,5 MΩ to 20 MΩ<br>20 MΩ to 200 MΩ<br>200 MΩ to 500 MΩ | ± (12% + 3D)<br>± (12% + 3D)<br>± (15% + 5D) | |
| 1000 V | 0 MΩ to 200 MΩ<br>200 MΩ to 1000 MΩ | 0,1 MΩ<br>1 MΩ | 1 mA @ 1 MΩ | | 1 MΩ to 200 MΩ<br>200 MΩ to 1000 MΩ | ± (12% + 3D)<br>± (15% + 5D) | |

## Line Loop Impedance Measurements

| Display range (auto-ranging) | Resolution | Intrinsic accuracy | | Measurement range | Operating error |
|---|---|---|---|---|---|
| 0 - 20 Ω | 0,01 Ω | ± ( 4% + 5 dgt.) no trip*<br>± ( 3% + 3 dgt.) high current | No trip mode | 0,50 – 2000 Ω | ± (15% + 8D) * |
| 200 Ω | 0,1 Ω | ± 5% | Hi current mode | 0,30 – 200 Ω | ± (10% + 5D) |
| 2000 Ω | 1 Ω | ± 6% | * Valid for resistance of neutral circuit < 20 Ohms | | |

## PSC Test

| | |
|---|---|
| **Computation** | PSC determined by dividing measured mains voltage by measured loop (L-PE) resistance or line (L-N) resistance. |
| **Range** | 0 – 10 kA |
| **Resolution and Units** | $I_K$ < 1000 A; 1 A / $I_K$ > 1000 A; 0,1 A |
| **Accuracy** | Determined by accuracy of Loop Resistance and Mains Voltage measurements. |

## RCD Testing (Types of RCDs tested)

| RCD Type | G (General, no delay)<br>S (Time delayed) | ProInstall-100-CH | ProInstall-200-CH |
|---|---|---|---|
| AC | G | • | • |
| AC | S | • | • |
| A/F | G | • | • |
| A/F | S | • | • |
| G/R | G | • | • |
| G/R | S | • | • |
| B/B+ | G | | • |
| B/B+ | S | | • |
| *1000mA for type AC only | | Voltage range: 100 … 264 VAC | |

## RCD Test, Trip Time

| Current settings** | Multiplier | Current accuracy | RCD type* | Test time (max) |
|---|---|---|---|---|
| 10, 30, 100, 300, 500, 1000 mA | x 1 | +10% -0% | G | 300 ms. |
| 10, 30, 100, 300, 500, 1000 mA | x 1 | +10% -0% | S | 500 ms. |
| * G = General S = Delayed-action RCD / ** For 1000mA setting type AC RCDs only, trip time measurement only (no ramp test) | | | | |

## RCD Test, Trip Time

| Current settings | Multiplier | Current accuracy |
|---|---|---|
| 10, 30, 100, 300, 500, 1000 mA* | x ½ | +0% -10% of test current |
| 10, 30, 100, 300, 500, 1000 mA * | x 1 | +10% -0% |
| 10, 30, 100 mA, Auto | x 5 | ±10% |
| *For 1000mA setting type AC RCDs only | | |

| Current multiplier | RCD type | Measurement range | | Trip time intrinsic accuracy | Trip time operating error |
|---|---|---|---|---|---|
| | | Europe | UK | | |
| x ½ | G | 310 ms. | 2000 ms. | + ( 2% + 2 D) | ± ( 10% + 2 D) |
| x ½ | S | 510 ms. | 2000 ms. | | |
| x 1 | G | 310 ms. | 310 ms. | | |
| x 1 | S | 510 ms. | 510 ms. | | |
| x 5 | G | 50 ms. | 50 ms. | | |
| x 5 | S | 160 ms. | 160 ms. | | |

# Detailed Specifications (continued)

**ProInstall-100-CH/ProInstall-200-CH**

## RCD Test, Trip Current Measurement (Ramp Test) ( $I_{\Delta N}$ )

| Current range | Step size | Dwell time | | Trip current intrinsic accuracy | Trip current operating error |
|---|---|---|---|---|---|
| | | Type G | Type S | | |
| 50% to 110% of RCD's rated current | 10% of $I_{PN}$ | 300 mS / step | 500 mS / step | ± 5% | ± ( 10% + 2 D) |

## Earth Resistance Test (Telaris ProInstall-200-CH only) ( $R_E$ )

| Display range | Resolution | Intrinsic accuracy | Measurement range | Operating error | Output current @128 hz | Frequency | Compliance voltage |
|---|---|---|---|---|---|---|---|
| 0 - 200 Ω | 0,1 Ω | ± (3%+5 D) | 10 – 2000 Ω | ± (10% + 3D) | 5 mA. | 128 Hz | ± 24 Volts |
| 2000 Ω | 1 Ω | ±( 5% + 10 dgt.) | | | | | |

## Phase Sequence Indication

| | |
|---|---|
| **Display of phase sequence** | Indicates "1-2-3" in digital display field for correct sequence. Indicates 3-2-1 for incorrect phase. |
| **Missing phase indication** | Missing phase indicated by dash in place of number on numeric display. |

## General Specifications

| | |
|---|---|
| **Power supply** | 6 x 1.5 V batteries type IEC LR6 (AA), 6 x 1.2 V NiMH rechargeable batteries |
| **Pollution degree** | 2 |
| **Measurement category** | CAT III 500 V / CAT IV 300V |
| **Protection degree** | IP40 |
| **Protection class** | II |
| **Electrical safety** | EN61010-1/VDE0411 |
| **EMC compliance** | EN61326-1 |
| **Dimensions (L x W x H)** | Approximately 115 x 255 x 130 mm |
| **Weight** | Approximately 1450 g |

For complete specifications please download the product manual on beha-amprobe.com

### Include accessories:

- 1 ProInstall-100 or 200
- 3 test leads
- 3 crocodile clips
- 3 test probes
- 1 test probe with test button
- 1 protective shell (integrated)
- 1 carry belt
- 1 carry case
- 6 1.5 V batteries, IEC LR6
- 1 quick reference guide
- 1 product manual on CD-ROM
- 1 Schuko mains test lead

### Recommended accessories (not included):

- Software
- Earth testing set TL-EARTH 4388671
- USB download cable TL-USB 4372676
- es control 0100 1312 2390062
- Beha-Amprobe DL-SW-KIT 4597359
- downloader software with cable

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