



# 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 41 1000, 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**



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





## 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	•	•

## 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 20 MΩ to 100 MΩ	0,01 MΩ 0,1 MΩ	1 mA @ 100 kΩ	± (5% + 5 dgt.)	0,1 MΩ to 20 MΩ 20 MΩ to 200 MΩ	± (12% + 3D)	+20%, -0%
250 V	0 MΩ to 20 MΩ 20 MΩ to 200 MΩ		1 mA @ 250 kΩ		0,25 MΩ to 20 MΩ 20 MΩ to 200 MΩ		
500 V	0 MΩ to 20 MΩ 20 MΩ to 200 MΩ 200 MΩ to 500 MΩ	0,01 MΩ 0,1 MΩ 1 MΩ	1 mA @ 500 kΩ	± (5% + 5 dgt.), For R > 200 MΩ ±10%	0,5 MΩ to 20 MΩ 20 MΩ to 200 MΩ 200 MΩ to 500 MΩ	± (12% + 3D) ± (12% + 3D) ± (15% + 5D)	
1000 V	0 MΩ to 200 MΩ 200 MΩ to 1000 MΩ	0,1 MΩ 1 MΩ	1 mA @ 1 MΩ		1 MΩ to 200 MΩ 200 MΩ to 1000 MΩ	± (12% + 3D) ± (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* ± (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	
<b>Computation</b>	PSC determined by dividing measured mains voltage by measured loop (L-PE) resistance or line (L-N) resistance.
<b>Range</b>	0 – 10 kA
<b>Resolution and Units</b>	I <sub>k</sub> < 1000 A; 1 A / I <sub>k</sub> > 1000 A; 0,1 A
<b>Accuracy</b>	Determined by accuracy of Loop Resistance and Mains Voltage measurements.

RCD Testing (Types of RCDs tested)			
RCD Type	G (General, no delay) 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 Δ 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 <sub>PN</sub>	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