

Multifunction Electrical Installation Tester Series

Telaris ProInstall-100-CH and ProInstall-200-CH

The Telaris Multifunction Tester Series offers two models that verify the safety of electrical installations in residential, commercial and industrial applications.

The Telaris ProInstall series has been developed to carry out the following safety measurements of electrical installations in accordance with EN 61557:

- Insulation resistance
- Low Ohm resistance
- Loop impedance
- RCD tests
- Earth ground resistance
- Phase sequence

- Tests electrical installations for safety in accordance with: EN 61557, BS7671, IEC 60364
- Lightweight and compact for portability
- Easy to use, intuitive interface allowing you to work immediately and efficiently
- Insulation resistance measurements up to 1000V DC

- Fast loop measurements with high test current
- No trip loop test, does not trip RCDs
- Easy to read, large back lit LCD display with wide viewing angle
- Data logging capabilities downloadable to a PC



Telaris ProInstall-100-CH



Telaris ProInstall-200-CH

TELARIS PROINSTALL SERIES COMPARISON TABLE

Specifications	ProInstall-100-CH	ProInstall-200-CH
Voltage & frequency display	■	■
Low Ohm resistance	■	■
Insulation resistance	■	■
Loop/line test	■	■
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)	■	■
Test DC-sensitive RCDs (Type B)		■
Earth resistance with rods		■
Phase sequence test	■	■
Illuminated display	■	■
Memory	■	■

For more detailed specifications see users manual.

PROINSTALL-100-CH AND PROINSTALL-200-CH DETAILED SPECIFICATIONS

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

Continuity 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)	

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

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		ProInstall-100-CH	ProInstall-200-CH
AC (Responds to AC)* A (Responds to pulsed signal)	G (General, no delay) S (Time delayed)		
AC	G	■	■
AC	S	■	■
A	G	■	■
A	S	■	■
B	G		■
B	S		■
*1000mA for type AC only		Voltage range: 100 ... 264 VAC	

RCD Test, Tripping Speed

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, Tripping Speed

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.		

RCD Test, Tripping Current Measurement (Ramp Test) (I_{ΔN})

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 _{ΔN}	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
Degree of pollution	2
Overvoltage category	CAT III 500 V / CAT IV 300V
Protection degree	IP40
Protection class	II
Electrical safety	EN61010-1/VDE0411
EMC interference resistance	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 datasheet and the users manual on www.Amprobe.ch

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