



Telaris Multifunction Electrical Installation Tester

Telaris ProInstall-100-DK



The Telaris ProInstall-100-DK Multifunction Installation Tester verifies the safety of electrical installations in residential, commercial and industrial applications. It has been developed to carry out measurements in accordance with regulation.

- Tests electrical installations for safety in accordance with EN 61557, BS7671 and 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-DK MEASUREMENT PARAMETERS

Specifications	ProInstall-100-DK
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)	■
Test AC and pulsed AC sensitive RCDs (Type AC, type A)	■
Phase sequence test	■
Illuminated display	■
Memory	■

For more detailed specifications see users manual.

PROINSTALL-100-DK 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 Measurements

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 R _{lo} < 2 Ohms	> 4V
200 Ω	0,1 Ω					
2000 Ω	1 Ω					

Insulation Resistance Measurements

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	± (15% + 8D) *
200 Ω	0,1 Ω	± 5%	Hi current mode	± (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

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

PROINSTALL-100-DK DETAILED SPECIFICATIONS

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)

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.eu