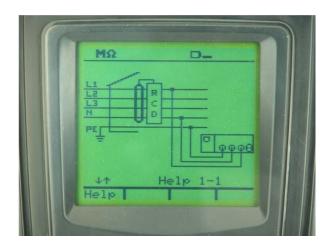


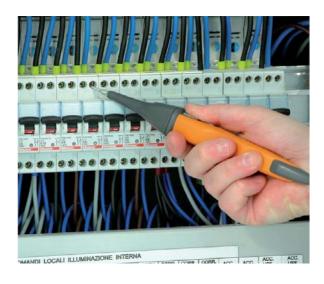
Insulation / Continuity meter with remote probe

Pag 1 - 3

1. MAIN FEATURES OF FAMILY 400 METERS



Help on line (available on each function) to support the user while connecting the instrument to the installation under measurement



Each model permits the Start of measurements with remote probe (PR400 optional accessory)



General menu to quickly selection of available test performed by meter (COMBI419 and COMBI420 models only)



ISO410

Rel. 1.04 - 09/10/07

Insulation / Continuity meter with remote probe

Pag 2 - 3

1. ELECTRICAL SPECIFICATIONS

Accuracy is indicated as \pm (% rdgs + no. of dgt) at 23°C \pm 5°C, con relative humidity <60%HR

Insulation resistance (DC voltage)						
Test voltage (V)	Range (MΩ)	Resolution (MΩ)	Accuracy	Category of measure		
	0.01 ÷ 9.99	0.01	±(2.0%rdg + 2dgt)	CAT III 240V to Ground CAT III 415V between inputs		
50	$10.0 \div 49.9$	0.1				
	$50.0 \div 99.9$		\pm (5.0%rdg + 2dgt)			
	$0.01 \div 9.99$	0.01	±(2.0%rdg + 2dgt)			
100	10.0 ÷ 99.9	0.1				
	100 ÷ 199	1	±(5.0%rdg + 2dgt)			
250	$0.01 \div 9.99$	0.01	±(2.0%rdg + 2dgt)			
	$10.0 \div 99.9$	0.1				
	100 ÷ 249	1				
	250 ÷ 499		±(5.0%rdg + 2dgt)			
	$0.01 \div 9.99$	0.01	±(2.0%rdg + 2dgt)			
500	10.0 ÷ 99.9	0.1				
	100 ÷ 499	1				
	500 ÷ 999		\pm (5.0%rdg + 2dgt)			
1000	$0.01 \div 9.99$	0.01				
	$10.0 \div 99.9$	0.1	\pm (2.0%rdg + 2dgt)			
	100 ÷ 999	1				
	1000 ÷ 1999		±(5.0%rdg + 2dgt)			

Open leads voltage: 1.25 x nominal test voltage voltage measurement resolution:1V

Short circuit current: <15mA (peak) for each test voltage

Nominal current: >2.2mA with 230k Ω @, 500V; 1mA with 1M Ω @ other test voltage

Continuity test on protective conductors						
Range (Ω)	Resolution (Ω)	Accuracy (*)	Category of measure			
$0.00 \div 9.99$	0.01	±(2.0%rdg + 2dgt)	CAT III 240V to Ground			
10.0 ÷ 99.9	0.1		CAT III 415V between inputs			

(*) after cable calibration which eliminates the cable resistance

Test current: >200mA DC per R \leq 5 Ω (calibration included) current measurement resolution: 1mA

Open leads voltage: $4 < V_0 < 24V$



ISO410

Rel. 1.04 - 09/10/07

Pag 3 - 3

Insulation / Continuity meter with remote probe

2. GENERAL SPECIFICATIONS

MECHANICAL FEATURES

Dimensions: 240 (L) x 160 (W) x 70 (D) mm

Weight (batteries included): about 1.2kg
Protection degree: IP50

MEMORY AND SERIAL INTERFACE

Each measurement can be stored

Memory: >600 locations PC communication port: optical / USB

DISPLAY:

Features: graphic LCD with backlight

POWER SUPPLY:

Batteries: 6x 1.5V type LR6, AA, AM3, MN 1500

Battery life: > 600 measurements (without using the timer)

ENVIRONMENTAL CONDITIONS:

Reference temperature of calibration: $23^{\circ}\text{C} \pm 5^{\circ}\text{C}$ Working temperature: $0^{\circ} \div 40^{\circ}\text{C}$ Working humidity: $< 80^{\circ}\text{HR}$ Storage temperature (batteries not included): $-10 \div 60^{\circ}\text{C}$ Storage humidity: $< 80^{\circ}\text{HR}$

GENERAL REFERENCE STANDARDS:

Product guideline: IEC61557

Insulation: class 2 (double insulation)

Pollution degree: 2

Overvoltage category of the voltage inputs (installation/measurement):

CAT III 240V to ground, 415V between inputs

Overvoltage category of the AUX input: 5V to ground Max altitude: 2000m

This instrument complies with the requirements of the European Low Voltage Directives 2006/95/EEC (LVD) and EMC 2004/108/EEC

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