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CA 6422 & CA 6424

2P & 3P Earth/Ground Testers



- 2P resistance/3P earth resistance measurement up to 50 k Ω for highly resistive terrain
- Automatic stabilization of the measurement
- Help with placing the stakes average and 52%/62%/72% deviation
- Leakage current measurement from 0.5 mA
- Battery recharging via the mains, USB socket or vehicle cigarette lighter

















ERGONOMICS

- A rugged, waterproof casing for intensive, all-terrain use
- Connections with text and coloured markings to avoid any risk of errors
- Detection if a hazardous voltage is present, thus prohibiting measurement
- The CA 6422 & CA 6424 are designed for work in total safety

3 measurement inputs Current measurement: 3P earth: H, S, E G72 clamp input for CA 6424

Battery charger input for CA 6424



2P resistance measurement: Ω + COM

Voltage measurement: V + COM G72 clamp for CA 6424



Direct access to all the functions, even when wearing gloves

Hazardous voltage LED Function keys

Operating help indications



The **NOISE** symbol flashes if a noise voltage is present, indicating that the measurement is subject to noise. If the noise level reaches a dangerous value, the symbol flashes and measurement is impossible.

Wide backlit LCD screen Measurement selection

Test activation. Backlit button visible in all circumstances

52%

62%

OPTIMIZED USE

As soon as it is powered up, the instrument automatically performs a resistance measurement in 2P mode. A short press on the TEST button starts measurements in one-shot 3P mode. A long press on TEST can be used to activate the permanent 3P mode. Internal filtering automatically stabilizes the measurement. As soon as it has stabilized, the result is frozen on the display. A LED indicates the presence of a hazardous voltage which prohibits measurement. If the NOISE symbol flashes, it means that a noise voltage is present. In the event of a noise-filled environment, automatic switching from a frequency of 128 Hz to 256 Hz helps to improve measurement accuracy.

MEASUREMENTS

Current measurements

As soon as it is connected to the CA 6424, the (optional) G72 clamp is recognized automatically. The CA 6424 then switches to current measurement mode (0.5 mA to 60.00 A).



Voltage measurements

The CA 6424 displays the value of the voltage between the V and COM terminals.

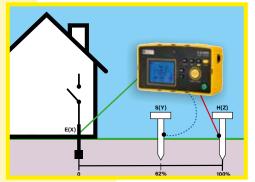




2P earth measurements

The automatic startup in 2P resistance mode immediately enables you to test the integrity of the H stake.



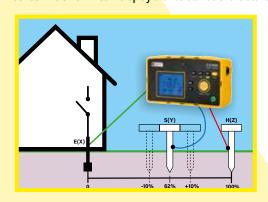




3P earth measurements

The 3P earth mode memorizes the 52%, 62% and 72% measurement values and calculates the difference in % in relation to the average. If the difference is too great, the percentage value displayed on screen flashes. The CA 6424 can display the resistance of the stake RH and the voltage USE.









	CA 6422	CA 6424
Voltage		
Range	-	0.1-600 V
Resolution	-	0.1 V
Accuracy	-	± (1%R + 1 ct)
2P resistance		
Range	0.05-99.99 Ω / 80.0-999.9 Ω / 0.800-9.999 kΩ / 8.00-50.00 kΩ	
Resolution	0.01 Ω / 1Ω / 10 Ω / 100 Ω	
Accuracy	$\pm (2\%R + 10 \text{ cts}) / \pm (2\%R + 2 \text{ cts}) / \pm (2\%R + 1 \text{ ct}) / \pm (2\%R + 1 \text{ ct})$	
Cable compensation	- up to 5 Ω	
3P earth resistance		
Range	0.5 Ω - 2.000 kΩ	0.5 Ω - 50.00 kΩ
Resolution	0.01 Ω / 0.1 Ω / 1 Ω	0.01 Ω / 0.1 Ω / 1 Ω / 10 Ω
Accuracy	$\pm (1\%R + 10 \text{ cts}) / \pm (1\%R + 2 \text{ cts}) / \pm (1\%R + 1 \text{ ct})$	
Measurement frequency	128 Hz or 256 Hz	
No-load voltage	±10 V peak	
Measurement mode	One-shot or permanent	
Data storage	-	Registers: RE @ 62%; RE @ 52%; RE @ 72%
Calculation of average	-	Calculation of the average and the % deviation in relation to the average
RH stake resistance measurement		
Range	-	0.05-9.999 kΩ / 8 - 49.99 kΩ
Resolution	-	1Ω/10Ω
Accuracy	-	±(10%R + 1 ct)
U _{SE} voltage measurement		
Range	-	0.10 - 99.99 VAC / 80.0 - 600 VAC
Resolution	-	0.01 V / 0.1 V
Accuracy	-	$\pm (2\%R + 2 cts)$
Current measurement (via optional G72 clamp)		
Range	•	0.5 - 999.9 mA / 0.800-9.999 A / 8.00-60.00 A
Resolution	•	0.1 / 1 / 10 mA
Accuracy	•	$\pm (1\%R + 4 cts) / \pm (1\%R + 2 cts)$
General specifications	D. 189	200
Display		206-segment LCD
Measurement mode	R 2P (Ω), R 3P (Ω)	V, I, R 2P (Ω), R 3P (Ω)
Power supply	6 x LR 6 or AA batteries	6 x NiMH rechargeable batteries, charging time approx 6 hrs
Charger Automatic power off	•	Internal via mains/USB adapter supplied
Automatic power-off	- 0.000 v. 0D could make	Deactivatable
Battery life	> 2,000 x 3P earth measurements at 100 Ω	>1,500 x 3P earth measurements at 100 Ω
Dimensions / weight	223 x 126 x 70 mm / 1 kg	
Environment	Operation: -10 to +50°C / Storage: -40 to +70°C (without batteries/accumulators)	
Protection	Up to 600 V on any of the input terminals	
IP / IK index	IP 65 as per IEC 60529 / IK 04 as per IEC 50102	
Standards / cleatrical agents	1 metre as per IEC 61010-1	
Standards / electrical safety	EMC: IEC 61326-1; IEC 61010-2-030 / 600 V CAT IV	
Compliance with IEC 61557	IEC 61557-1 and IEC 61557-5	

STATE AT DELIVERY AND REFERENCES

6422 P01127012

Instrument delivered with 6 x LR6 type AAA batteries, 1 quick start guide, 1 safety datasheet, 1 test report with measurement results, WEB link/QR Code for downloading the manuals.

CA 6424 P01127014

1 carrying bag, 6 NiMH batteries, 1 USB 2A power supply, 1 USB micro-razor power cable, 1 multilingual quick start guide, 1 safety datasheet, 1 battery datasheet, 1 test report with measurement results, WEB link/QR Code for downloading the manuals.

ACCESSORIES AND REPLACEMENT PARTS



Carrying bag G72 current clamp 4-point hands-free strap 15m earth kit 50m earth kit Wrist strap P01298006 P01120872 HX0302 P01102017 P01102021 HX0122

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