

Blue Panther s.r.o. Mezi Vodami 29 143 00 Praha 4

www.blue-panther.cz

CE

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CEI 61243-3



C.A 762

Ω

CHAUVIN® ARNOUX

# C.A 742 - C.A 742 IP2X, C.A 762 - C.A 762 IP2X Low-voltage two-pole voltage absence testers



- Full integrated autotest
- Voltage testing up to 690 V<sub>AC</sub> (16 2/3 Hz - 800 Hz) / 750 V<sub>DC</sub>
- 🔺 Single-pole phase test
- Phase sequence testing up to 400 Hz
- Continuity testing
- Removable test probe and cable

IP2X versions for even greater safety

Measure

C.A 742

Ω





In the context of work on installations connected to the electrical distribution network, it is recommended to perform the measurements with the power off (EN 50110-1, NF C 18-510, etc.) to prevent any electrical hazards.

The genuine absence of any voltage must be checked using a specific instrument which complies with the IEC 61243-3 standard: a Voltage Detector.

#### Comfortable use

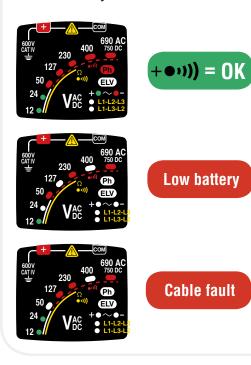
Specially designed for use with Individual Protective Equipment (IPE), the IP2X test probes are fitted with a spring ensuring a force of 10 N: this means users can perform quick tests in all situations.

### Removable:

The cables and test probes can be replaced very easily.

### Full integrated autotest:

Checking of the power source. Checking of the indication system. Cable continuity test.





# Redundant safety in the event of power supply faults (batteries)

The independent **ELV** (Extra-Low Voltage) LED lights up when the voltage present exceeds 50 V<sub>AC</sub> / 120 V<sub>DC</sub>.

The faster the **ELV** LED flashes, the higher the voltage present.

### **Protective guard**

More than 5 mm thick

### Continuity

The audible and visual continuity test is performed at 100  $\Omega$ , in compliance with Appendix B of the standard. The C.A 762 offers an extended continuity test with visual indications for R < 2 k $\Omega$ , 60 k $\Omega$  and 300 k $\Omega$ .

### Indoor and outdoor use

The IP65 protection rating is higher than recommended, allowing indoor and outdoor use down to -15 °C (type N).

# a clearly-defined procedure

# AC and DC voltage testing

The audible and visual AC and DC voltage detection function is characterized by:

- Use of 2 test probes in contact
- A bargraph made of extra-bright green LEDs for voltages under 25 V (very low voltage) and red LEDs for hazardous voltages
- One redundant
  ELV
- A loud audio signal which can be heard even in noisy environments



# 2-wire phase rotation with microprocessor



Simple and quick, phase rotation is a useful function, including for circuits isolated by an isolating transformer.

The indication L1-L2-L3 (or L1-L3-L2) is clear and consensual whatever the convention chosen (clockwise or anticlockwise) for vectorial representation (Fresnel diagram).



## Continuity

When no voltage is present, you can quickly perform a continuity test by pressing the  $\Omega$  key.

## Single-pole phase detection

With just one point connected, it is easy to detect the position of a phase simply and quickly.





The C.A 751 adapter can be used with a C.A 742 or C.A 762 VAT to detect voltages quickly and directly on 2P+E sockets.

The C.A 753 adapter's design means any test probes can be used ( $\emptyset$  2,  $\emptyset$  4, IP2X, etc.). It avoids any risk of nondetection of voltage by guaranteeing good electrical and mechanical contact between the probes and the 2P+E socket.

Like the C.A 753, the C.A 751 provides a visual indication when a mains voltage (> 200 V) is present and also shows the phase position.







## **IP2X** accessories

The IP2X accessory provides extra safety.

In France, the standards and governmental orders impose its use.

Technical specifications	C.A 742 / C.A 742 IP2X	C.A 762 / C.A 762 IP2X		
Voltage detection				
Voltage	$12 \text{ V} \leq \text{U} \leq 690 \text{ Vac} \ \text{-}$	$12 \text{ V} \le \text{U} \le 690 \text{ Vac} - 12 \text{ V} \le \text{U} \le 750 \text{ Vdc}$		
Frequency	DC, 162/3 H	DC, 16 2/3 Hz to 800 Hz		
Input impedance	> 300 kΩ	> 400 kΩ		
Max. peak current	3.5 n	3.5 mA <sub>RMS</sub>		
Polarity indication	Y	Yes		
Hazardous voltage indication	( 5)	The red ELV (Extra Low Voltage) LED indicates that the voltage is higher than the SELV (Safety Extra Low Voltage) and the faster it flashes, the higher the voltage present.		
Phase / Neutral identification	Above a typical value of 120 V* (45 - 6	Above a typical value of 120 V* (45 - 65 Hz) – Above 400 V (16 2/3 Hz - 45 Hz)		
Continuity with buzzer				
Trigger threshold	100 Ω typica	100 Ω typical (150 Ω max.)		
Extended continuity test	-	2 kΩ, 60 kΩ, 300 kΩ		
Test current	≤1	≤ 1 mA		
Open-circuit voltage	≤ 3	≤ 3.3 V		
Protection	up to	up to 1,000 V		
Phase rotation	No	2-wire method		
Ph/Ph voltage	-	$50 \text{ V} \le U \le 690 \text{ Vac}$		
Frequency	-	45 Hz to 400 Hz		
Buzzer	Intermittent beep for voltage detection	Intermittent beep for voltage detection and continuous beep for continuity		
	IEC 61010	IEC 61010 600 V CAT IV		
Standards and electrical safety	IEC 61243-3 concerning Voltage Detectors	IEC 61243-3 concerning Voltage Detectors/ Voltage Absence Testers (VATs) (DDT/VAT)		
-	IEC 61326-1, emission and immunity in industrial environments			
Enclosure protection	Casing: IP65 – Test probes (depen	Casing: IP65 – Test probes (depending on reference and option): IP2X		
Climatic conditions	Use from -15 °C to +45	Use from -15 °C to +45 °C / 20 %RH to 95 %RH		
Power supply	2 x 1.5 V (A	2 x 1.5 V (AAA and LR3)		
Battery life	7,500 x 10 s measurements	7,000 x 10 s measurements		
Dimensions /weight	163 x 64 x 4	163 x 64 x 40 mm / 210 g		

\* with standard individual protective equipment

#### **To order**

C.A 742	
Delivered in blister pack with 1 lead 0.85 m long with a black Ø 2 mm test p	robe

fitted with a crystal safety cap, 1 wrist strap, 2 x 1.5 V LR03/AAA batteries & 1 user manual in 5 languages.

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C.A 742 IP2X	
C.A 762 IP2X	
	th 1 black probe-holder lead 1.10 m long,

1 set of removable IP2X Ø 4 mm test probes (1 red/1 black), 1 wrist strap, 2 x 1.5 V LR03/AAA batteries and 1 user manual in 5 languages.







P01101997Z

Q	* Probe-holder lead and IP2X test probes delivered with the C.A 742 IP2X and C.A 762 IP2X

\* A clever system for stowing the test probe and cable



Red Ø 2 mm test probe equipped with a crystal safety cap      0.85 m black lead with Ø 2 mm test probe equipped with a crystal safety cap      Adapter for safety rod (set of 2)      Crystal safety cap for Ø 2 mm test probe (set of 10)      CAT IV test probes for VATs (1 red / 1 black)      Ø 2 mm test probes equipped with a crystal safety cap for VATs	P01102009Z P01102034 P01102033
(1 red / 1 black)	P01102124Z
Ø 4 mm test probes for VATs (1 red / 1 black)	P01102125Z
Set comprising 1 black probe-holder lead 1.10 m long,	
1 set of IP2X Ø 4 mm test probes (1 red / 1 black)	P01102121Z
IP2X CAT IV test probes for VATs (1 red / 1 black)	P01102127Z
IP2X Ø 4 mm test probes for VATs (1 red / 1 black)	
C.A 751 adapter for 2P+E sockets, compatible with C.A 74x and C.A 76x VATs	
C.A 753 universal adapter for 2P+E sockets	
Bag compatible with MultiFix accessory (120 x 200 x 60 mm)	
MultiFix mounting accessory	
Soft case (200 x 100 x 40 mm)	
Replacement wrist strap	P03100824
	1 00100024



## FRANCE

**Chauvin Arnoux** 190, rue Championnet 75876 PARIS Cedex 18 Tel: +33 1 44 85 44 38 Fax: +33 1 46 27 95 59 export@chauvin-arnoux.fr www.chauvin-arnoux.com

### UNITED KINGDOM

**Chauvin Arnoux LTD** Unit 1 Nelson Ct, Flagship Sq, Shaw Cross Business Pk Dewsbury, West Yorkshire - WF12 7TH Tel: +44 1924 460 494 Fax: +44 1924 455 328 info@chauvin-arnoux.co.uk www.chauvin-arnoux.com

# MIDDLE EAST MIDDLE EAST Chauvin Arnoux Middle East P.O. BOX 60-154 1241 2020 JAL EL DIB - LEBANON Tel: +961 1 890 425 Ever: +661 4 900 404 Fax: +961 1 890 424 camie@chauvin-arnoux.com

www.chauvin-arnoux.com

#### Your distributor



www.blue-panther.cz