

C.A 6155

Multi-function equipment tester



Check the safety of all your electrical instruments and equipment

- › Electrical safety testing on portable electrical equipment, machines and switchgear.
- › Preprogrammed test sequences adapted to the standards or your personal needs
- › Extensive storage capacity allowing you to store up to 6,000 measurements
- › Delivered with data processing and report generation software as standard
- › Large backlit graphic screen with an intuitive user interface and contextual help for each function
- › Built-in keyboard for quick and easy customization of the measurements recorded



IEC
60204

VDE
0701/0702

IEC
61439

Measure up



C.A 6155 Multi-function equipment tester



All the measurements and tests required for compliance verification are available:

- › 200 mA and 10 A continuity measurements
- › Insulation resistance at 250 VDC and 500 VDC
- › Leakage current measurement by the substitution method
- › RCD leakage current
- › Contact leakage current
- › Mains power cable polarity test
- › Measurement of TRMS leakage and load currents (current clamp available as an option)
- › RCD test (including portable RCDs)
- › Testing of type A, AC and B residual current devices (including portable RCDs)
- › Functional test with consumption measurement
- › Loop impedance and line impedance with calculation of short-circuit currents
- › Discharge time
- › Dielectric test
- › Phase rotation
- › Voltage / frequency measurements
- › Functional and visual inspection

The C.A 6155 multi-function electrical equipment tester can be used for all the measurements needed to check the electrical safety of all portable electrical devices, machines and switchboards.

It is therefore ideal for electrical equipment safety testing and certification in the context of compliance verification, periodic checking or maintenance

It will be particularly useful for:

- › Electrical instrument and equipment manufacturers seeking to check their compliance ("CE" marking)
- › Industrial maintenance companies needing to check the compliance of equipment in a fleet or on an installation
- › After-sales service companies repairing and checking the compliance of instruments or equipment presenting anomalies
- › Certification organizations for periodic verifications
- › Technical education.

The measurements are divided into four sections, depending on the standard applied:

- › Switchgear tests as per the IEC 61439 standard
- › Tests on machines as per the IEC / EN 60204 standard
- › Tests on portable electrical equipment in compliance with the VDE 0701/0702 standard
- › Miscellaneous tests: with its vast range of functions, the C.A 6155 is also ideal for safety tests in accordance with the standards for many other products.

TECHNICAL SPECIFICATIONS

Dielectric testing	
Test voltage	1,000 V / 1,890 V / 2,200 V
I limit	0.1 to 100 mA (1,890 V / 2,200 V) 0.1 to 200 mA (1,000 V)
I _{max} of HV/Power source	200 VA
Timer	2, 3, 5, 10, 30, 60 s
Insulation resistance measurement	
U _{test}	250 / 500 VDC
Range	Up to 200 MΩ
Timer	5, 10, 30, 60, 120 s
Continuity testing	
Range	0.01 to 1.99 Ω
I test	0.20 / 10 A
U test	< 9 V
Timer	5, 10, 30, 60, 120, 180 s
Leakage current measurement	
Substitution method	0.00 to 19.99 mA
Differential method	0.00 to 9.99 mA
Accuracy	± (5 % of reading + 5 cts)
Contact leakage current measurement	
Measurement range	0,00-2,50 mA
Accuracy	± (10% of reading + 5 cts)
Timer	2, 3, 5, 10, 30, 60, 120 s
60 V discharge time measurement	
Voltage range (peak value)	0 to 550 V
Time range	1 s, 5 s
Functional test	
Apparent power	0.00 to 4.00 kVA
Power-cable polarity test	
	YES



OTHER SPECIFICATIONS	
RS 232	1 connection for barcode / RFID reader + 1 connection for printer / PC
USB/B	1 printer / PC connection
Alarms	Yes for all functions
Storage	6,000 memory locations
Software	Yes, delivered as standard
POWER SUPPLY	115 V - 230 V / 50-60 Hz
FUNCTIONAL STANDARDS	VDE 701 702 / IEC 60204 / IEC 61439
STANDARDS	IEC 61010-1 / IEC 61557 (parts 1, 2, 3, 4, 6, 7)
ELECTRICAL SAFETY	Cat II / 300 V
DIMENSIONS / WEIGHT	33.5 cm × 16.0 cm × 33.5 cm - 8.4 kg

Current measurement with clamp	
	0.00 mA to 24.9 A
PRCD testing	
Calibre	10, 15, 30 mA
Test current	0.5xI _{Δn} , I _{Δn} , 5xI _{Δn}
Other	Automatic PRCD test
RCD testing	
Calibre	10, 30, 100, 300, 500, 1000 mA
Test current	0.5xI _{Δn} , I _{Δn} , 2xI _{Δn} , 5xI _{Δn}
Current type	AC / A / B
RCD type	General / Selective
Test type	Step / Pulse
U _c contact voltage measurement	YES
Other	Automatic RCD test
High-current Z_s loop measurement	
Test current	6.5 A
Range	0.00 to 1,999 Ω
Accuracy	± (5 % of reading + 5 digits)
I _k calculation	0.00 to 23.0 kA
Z_s loop measurement (without RCD tripping)	
Range	0.00 to 1,999 Ω
Accuracy	± (5 % of reading + 10 digits)
I _k calculation	0.00 to 23.0 kA
Z_i loop measurement	
Test current	6.5 A
Range	0.00 to 1,999 Ω
Accuracy	± (5 % of reading + 5 digits)
I _k calculation	0.00 to 199 kA
Voltage / frequency	
	0 to 550 V / 14.0 to 499.9 Hz
Phase rotation	
Voltage	100 to 550 VAC
Frequency	14 to 500 Hz

STATE AT DELIVERY

• C.A 6155 P01146002

Delivered with an accessories bag containing:

- 2 high-voltage test cables (2 m)
- 1 high-voltage test probe (red)
- 1 high-voltage crocodile clip (red)
- 1 plug-in test cable 1.5 m long
- 1 test cable with three separate leads 3 m long
- 1 test lead (green, 1.5 m)
- 1 test lead (black, 1.5 m)
- 1 test lead (red, 1.5 m)
- 1 test lead (red, 4 m)
- 1 test probe (blue)
- 1 test probe (green)
- 1 test probe (black)
- 1 test probe (red)
- 3 crocodile clips (black)
- PC software on CD-ROM with RS232 and USB cable
- 1 multilingual user's manual on CD-ROM
- 1 multilingual safety datasheet
- 1 specimen measurement report

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