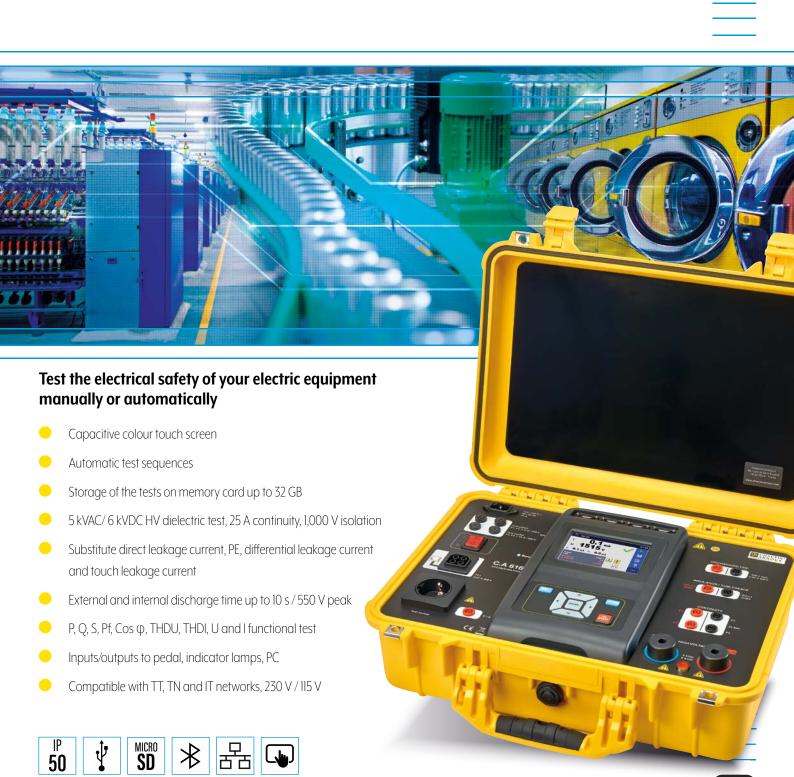


CA 6165

Multi-function equipment tester



IEC 50191

0701/0702

IEC

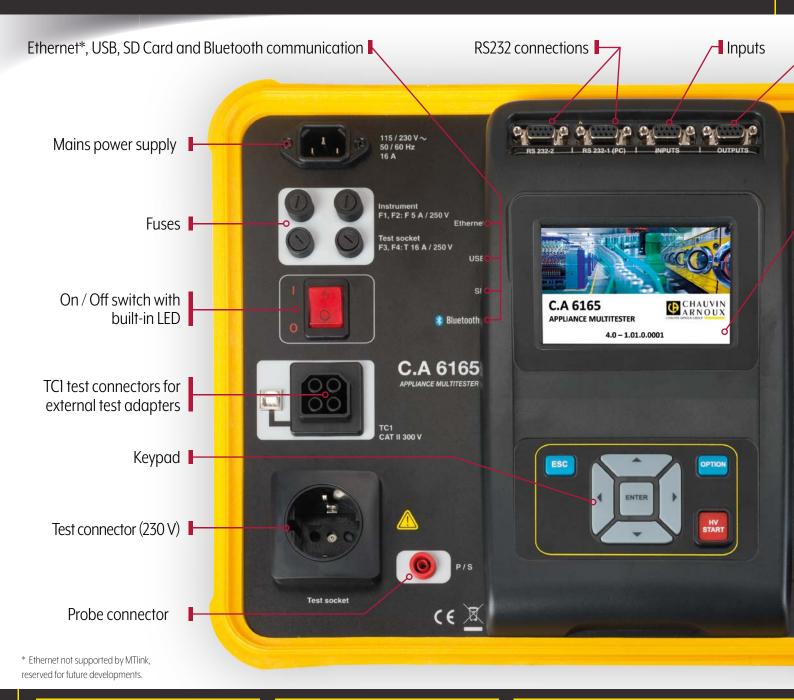
60335

IEC

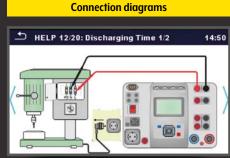
The C.A 6165 multi-function electrical equipment tester can be used to perform all the measurements needed to test the electrical safety of portable electric equipment, machines and switchboards. This makes it ideal for electrical safety testing and certification of equipment in the context of end-of-line production conformity checking, periodic inspections or maintenance.

In terms of applications, it will be used frequently by:

- Electrical equipment manufacturers for conformity checking ("CE" marking)
- Switchboard specialist for checking the low-voltage cabinets
- Industrial maintenance firms needing to check the conformity of a fleet or installation
- After-Sales Service companies repairing and checking the conformity of equipment with anomalies
- Certification organizations for periodic inspections
- Technical education







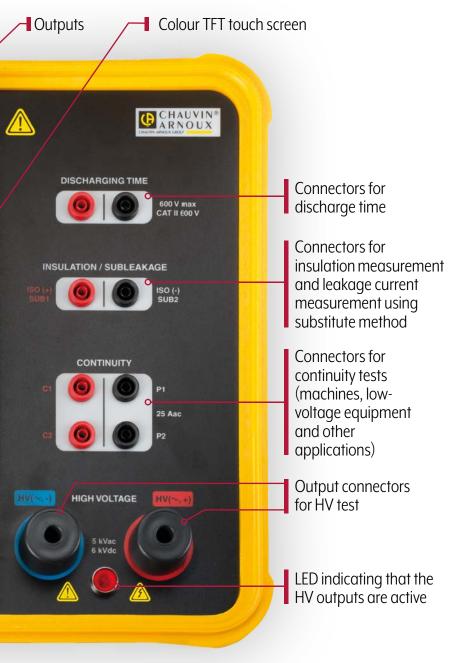


⊅ Ipe

All the **measurements** and **tests** required for this conformity checking are available:

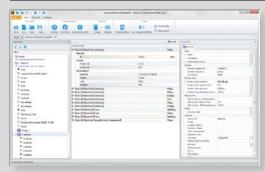
- ◆ 200 mA, 4 A, 10 A and 25 A continuity
- TRMS leakage and load currents
- Voltage / Frequency
- Leakage current by substitute method
- Differential leakage current
- Touch leakage current
- Earth leakage current (PE)

- Functional test with consumption measurement
- AC and DC dielectric tests
- Discharge time
- Functional and visual inspection
- ◆ 50 V / 100 V / 250 V / 500 V and 1,000 V insulation resistance
- Power values (active, apparent & reactive) & THD





MTLink software

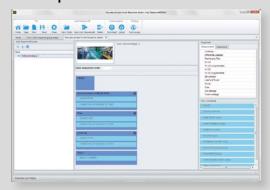


For simple report generation according to the applicable standards

The analysis part is simplified by the PC software delivered as standard, enabling you to:

- Download the test results onto a PC for archiving in a database and report generation.
- Download test plans from the PC into the instrument to perform predefined tests.
- Define automatic test sequences.

Auto-sequence



Print your measurement reports



		CA 6165 Tec	hnical Specification	าร		
High voltage			•			
16 (ACD 11	Range	0 V to 1999	9 V		2 kV to 5.99 kV	
AC / AC Programmable	Resolution/Accuracy	1 V / ± 3 %	R		10 V / ± 3 % R	
OC / DC Due suggested schole	Range	0 V to 1,999 V		2 kV to 6.99 kV		
DC / DC Programmable	Resolution/Accuracy	1 V / ± 3 % R		10 V / ± 3 % R		
Carmont	Range	AC: I apparent & res	sistive 0 mA to 99.9 mA - I capa	acitive: -99.9 mA to + 99.9 mA	a - DC: 0.01 mA to 9.99 mA	
Courant	Resolution/Accuracy	AC: I apparent: 0.1 mA $/\pm3$ % R ±3 cts, indicative for I capacitive & I resistive - DC: 0.01 mA $/\pm$ (5 % R ±3 cts)				
0.2 A; 4 A; 10 A or 25	A continuity, voltage drop	(10 A)				
Range		0 to 19.99 Ω	20 to 99.9 Ω	100 to 199.9 Ω	200 to 999 Ω	
Resolution		0.01 Ω	0.1 Ω	0.1 Ω	1Ω	
Accuracy		± (2 % R + 2 cts)	± 3 % R	± 5 % R	-	
	Voltage drop (10 A)		0.00	/ to 99.9 V		
Insulation						
	Voltage	50 V / 100 V		2.5	250 V / 500 V / 1,000 V	
Range		0 to 19.99 MΩ	$20\mathrm{M}\Omega$ to $99.9\mathrm{M}\Omega$	0 to 19.99 MΩ	20 MΩ to 199.9 MΩ	
Resolution		0.01 ΜΩ	0.1 ΜΩ	0.01 MΩ	0.1 ΜΩ	
	Accuracy	± (5 % R + 2 cts)	± 20 % R	± (3 % R + 2 cts)	± 10 % R	
Leakage current						
Method		Substitute	Substitute I PE		Touch	
Range		0.00 to 19.99 mA	0.00 to 19.99 mA	0.00 to 19.99 mA	0.00 to 19.99 mA	
Resolution		10 μΑ	0.01 mA	0.01 mA	0.01 mA	
	Accuracy	± (5 % R + 3 cts)	± (3 % R + 3 cts)	± (3 % R + 5 cts)	± (3 % R + 3 cts)	
34 V, 60 V and 120 V d	discharge time					
	Time	Range: 0 to 9.9 s	Resol	ution: 0.1 s	Accuracy: \pm (5 % R + 2 cts)	
Up voltage		Range: 0 to 550 V	Reso	lution: 1 V	Accuracy: \pm (5 % R + 3 cts)	
Power values						
		Active (P)		arent (S)	Reactive (Q)	
	Range/Resolution	0 to 3.70 kW $/$ 0.01 W to 10 W	0 to 3.70 kVA	/ 0.01 VA to 10 VA	0 to 3.70 kVAr / 0.01 VAr to 10 VA	
	Accuracy	± (5 % R + 5 cts) ± (5 % R + 10 cts)		± (5 % R + 10 cts)		
	Other		PF, Cos φ, THDi , THDu ; (5 % R + 5 D)			
Voltage		0.0 V to 199 V / 0.1 V / \pm (3 % R + 10 cts)		20	200 to 264 V / 1 V / ± 3 % R	
Current		0 to 999 mA / 1 mA / ± (3 % R + 5 cts)		1.00 to 16.00 A / 10 mA / ± 3 % R		
General specifications	S					
	Display		Colour TFT scre	en, 480 x 272 pixels		
	Storage			microSD card		
Cor	mmunication interfaces	RS232, USB, Ethernet*, Bluetooth, Inputs / Outputs (2 x DB9)				
	Power supply	110V/230V - $50Hz/60Hz$; Max. consumption: $600W/4.5kW$ if charged on mains test socket				
	Dimensions / weight	435 x 292 x 155 mm / 17 kg				
	Environment	Environment Operating temperature: $0 ^{\circ}$ C to +40 $^{\circ}$ C; Storage: -10 $^{\circ}$ C to +60 $^{\circ}$ C				
	Protection	IP40 open / IP50 closed				
	Electrical safety		300 V CAT II / 600 V	CAT II (DISCH1 / DISCH2)		

 $^{{}^{*}\ \}mathsf{Ethernet}\ \mathsf{not}\ \mathsf{supported}\ \mathsf{by}\ \mathsf{MTlink}, \mathsf{reserved}\ \mathsf{for}\ \mathsf{future}\ \mathsf{developments}.$

State at delivery

A CA 6165 delivered with

- $2\,x$ HV test guns with HV cables $2\,m$ long
- -1x Certificate with measurement report
- -1 x RS232 cable
- -1 x USB cable
- -1 x CD-Rom containing the User's Manuals and the MTLink software
- 1 x EURO mains power cable
- -1 x standard carrying bag
- 2 x double continuity cables 2.5 m long
- -1 x set of red/black insulation cables 2.5 m long
- 1 x single red continuity cable 1.5 m long
- 2 x black crocodile clips
- 3 x red crocodile clips
- 2 x red and black 1 kV CAT IV test probes
- -1 x EURO discharge cable
- -1 x safety datasheet for finished products
- 1 x FR/GB Quick Startup Guide in booklet format (DE/ES/IT on CD-Rom)



Optional accessories

- Remote-control pedal
- 2-colour indicator lamps
- 4-colour indicator lamps
- Power adapter for indicator lamps

References

145851
1102177
1102178
102179
102180

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