



CA 6165

Multi-function equipment tester



50191

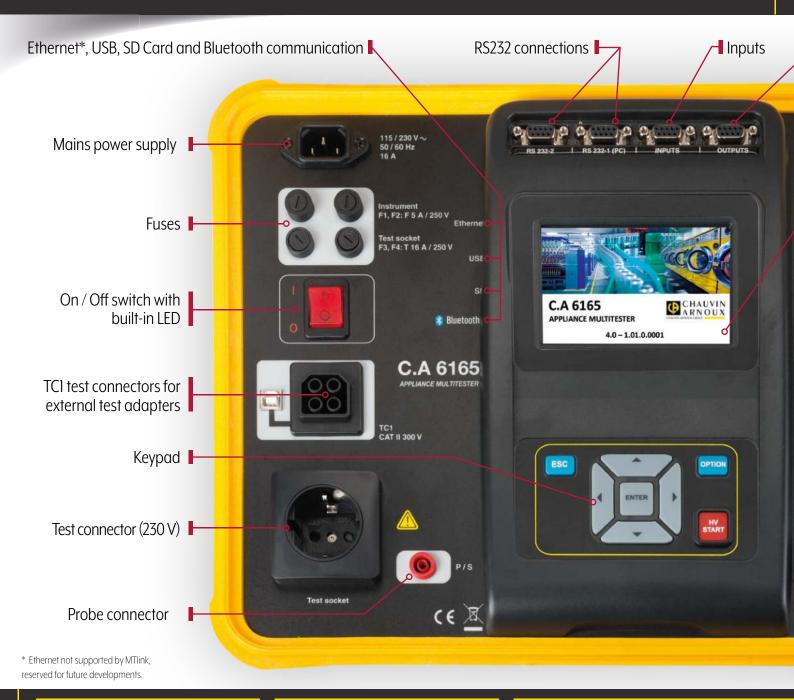
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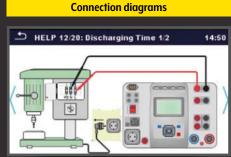
The C.A 6165 multi-function electrical equipment tester can be used to perform all the measurements needed to test the electrical safety of portable electric equipment, machines and switchboards. This makes it ideal for electrical safety testing and certification of equipment in the context of end-of-line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









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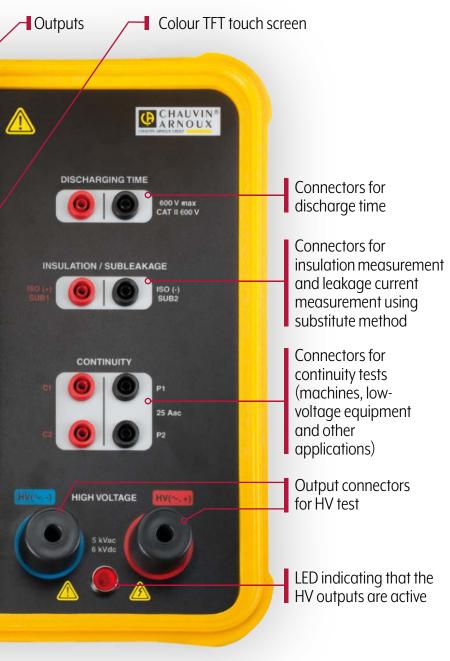
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All the **measurements** and **tests** required for this conformity checking are available:

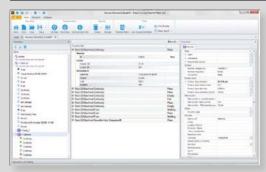
- ◆ 200 mA, 4 A, 10 A and 25 A continuity
- TRMS leakage and load currents
- Voltage / Frequency
- Leakage current by substitute method
- Differential leakage current
- Touch leakage current
- Earth leakage current (PE)

- 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 Te	echnico	al Specifications	5			
High voltage				•				
AC / AC D	Range	0 V to 1999 V			2 kV to 5.99 kV			
AC / AC Programmable	Resolution/Accuracy	1 V / ± 3 % R		10 V / ± 3 % R				
DC / DC Programmable	Range	0 V to 1,999 V			2 kV to 6.99 kV		5.99 kV	
	Resolution/Accuracy	1 V / ± 3 % R		10 V / ± 3 % R				
Courant	Range	AC: I apparent & resistive 0 mA to 99.9 mA - I capacitive: -99.9 mA to +99.9 mA - DC: 0.01 mA to 9.99 mA						
Lourani	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 V t	o 99.9 V			
Insulation								
Voltage		50 V / 100 V		250 V / 500 V / 1,000 V				
Range		0 to 19.99 MΩ	20 MΩ to 99.9 MΩ		0 to 19.99 MΩ		$20\text{M}\Omega$ to 199.9 $\text{M}\Omega$	
Resolution		0.01 ΜΩ	0.1 ΜΩ		0.01 ΜΩ		0.1 ΜΩ	
Accuracy		± (5 % R + 2 cts)	± 20 % R		± (3 % R + 2 cts)		± 10 % R	
Leakage current								
Method		Substitute	I PE		Differential		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 a	discharge time							
Time		Range: 0 to 9.9 s		Resolution: 0.1 s		Accuracy: ± (5 % R + 2 ct		
Up voltage		Range: 0 to 550 V		Resolution: 1 V		Accuracy: ± (5 % R + 3 cts)		
Power values								
		Active (P)		Apparent (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 VAr		
Accuracy		± (5 % R + 5 cts) ± (5 % R			, , , , , , , , , , , , , , , , , , , ,		± (5 % R + 10 cts)	
	Other		HDu ; (5 % R + 5 D)					
Voltage		0.0 V to 199 V / 0.1 V / ± (3 % R + 10 cts)		· · · · · · · · · · · · · · · · · · ·	200 to 264 V / 1 V / ± 3 % F			
Current		0 to 999 mA / 1 mA / ± (3 % R + 5 cts)			1.00 to 16.00 A / 10 mA / ± 3 % R			
General specification	S							
	Display	Colour TFT screen, 480 x 272 pixels						
	Storage	microSD card						
Cor	mmunication interfaces	RS232, USB, Ethernet*, Bluetooth, Inputs / Outputs (2 x DB9)						
	Power supply	110 V / 230 V - 50 Hz / 60 Hz ; Max. consumption: 600 W / 4.5 kW if charged on mains test socket						
Dimensions / weight		435 x 292 x 155 mm / 17 kg						
	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 C	at II (dischi / disch2)			

^{*} Ethernet not supported by MTlink, reserved for future 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
- -1x 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

CA 6165	P01145851
Control pedal	P01102177
2-colour indicator lamp	D01102178
2-colour indicator tarrip	FUIIUZI/O
4-colour indicator lamp	P01102179
Power adapter for lamps	P01102180
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