

The 5 kV insulation measurement expert!

C.A 6549

With its graphical interface, the C.A 6549 megohmmeter makes it easy to interpret measurements in the field. As well as calculating the quality ratios (DAR/PI/DD), the C.A 6549 includes a Step Voltage function that puts it at the top of its class.

Ergonomics

- Large graphic screen with digital display and bargraph
- Possibility of displaying the measurement graph in real time for quicker interpretation
- Site-proof case suitable for the severest measurement conditions
- Compatible with the DataView® software, allowing users to configure the instrument, trigger tests remotely via a PC, view the test results in real time, recover stored data and generate standard or customized measurement reports
- Storage of 1500 results



C.A 6549

Measurement

- Wide measurement range from 10 kΩ to 10 TΩ
- Fixed test voltages: 500 V, 1000 V, 2500 V and 5000 V
- Programmable test voltages from 40 to 5100 V (storage of 3 voltages)
- Direct reading of the insulation value with display of the leakage current, capacitance, test voltage and test duration
- Programmable test duration and possibility of customizing the measurement time for DAR/PI/DD
- Step Voltage function with the possibility of programming the voltage and time values for each step: storage of 3 step profiles, each with 5 steps maximum
- Automatic calculation of the insulation value at a reference temperature
- Smooth function for smoothing the insulation values so they are easier to read and quicker to interpret
- Possibility of automatically measuring the samples of the insulation tested, at a rate chosen by the user
- Programmable alarms with visual warning signal and buzzer

Safety

- Locking of test voltages: ideal when lending the instrument to less-experienced users
- Automatic test inhibition if a dangerous external voltage (AC or DC) is detected before or during measurement
- Operator safety guaranteed by automatic discharging of the device being tested, with display of the discharge voltage
- IEC 611010-1, CAT III 1000 V

		C.A 6549
Insulation		
Test voltage	500 V 1000 V 2500 V 5000 V	30 kΩ to 2 TΩ 100 kΩ to 4 TΩ 100 kΩ to 10 TΩ 300 kΩ to 10 TΩ
Voltage programming		40 to 1000 V: 10 V increments 1000 to 5100 V: 100 V increments
Automatic voltage steps		Programming of value and duration up to 5 steps, 3 profiles stored
Accuracy	1 kΩ to 40 GΩ 40 GΩ to 10 TΩ	± 5% of value ± 3 cts ± 15% of value ± 10 cts
Programmable test duration		1 to 59 minutes
DAR (1 min/30 sec)		0.02 to 50.00
PI (10 min/1 min)		0.02 to 50.00
Customizable PI		Time from 30 s to 59 min as required
DD		0.02 to 50.00
Voltage test / Safety		0 to 1000 V _{AC/DC}
Voltage alert indicator		Yes > 25 V
Test inhibition		Yes – adjustable according to test voltage
Smooth function		Configurable – Digital filtering to stabilize the measurements
Capacitance		0.005 to 49.99 μF
Leakage current measurement		0.001 nA to 3 mA
Storage – Communication		
Storage of R(t)		Display on screen + Storage of samples
Storage of measurements		Up to 1500 measurement results
Direct report printing		On local printer, fixed format
Communication port		RS 232
PC software		DataView (option)
Other features		
Display		Large LCD + bargraph
Power supply		NiMH rechargeable battery
Dimensions		270 x 250 x 180 mm
Weight		4.3 kg
Electrical safety		IEC 61010 1000 V CAT III – IEC 61557

Ordering information

> C.A 6549 P01139703

Delivered with a bag containing 2 safety leads 3 m long with HV plugs and HV crocodile clips (red / blue), 1 guarded safety lead 3 m long with HV plug with rear connection and HV crocodile clip (black), 1 lead with rear connection (blue) 0.35 m long, 1 mains power cable 2 m long, 1 communication cable, 1 simplified operating manual, 1 operating manual in 5 languages.



DataView®
(optional for the C.A 6549 - see page 10)

Accessories/Replacement parts

C.A 861 thermometer + K thermocouple	P01650101Z
AN1 artificial neutral	P01197201
Set of 2 simplified HV measurement leads (red/black)	P01295231
1 guarded simplified HV lead + 1 crocodile clip (blue)	P01295232
1 HV lead 8 m long with blue crocodile clip.....	P01295214
1 HV lead 8 m long with red crocodile clip.....	P01295215
1 HV lead 8 m long with black crocodile clip (EARTH)	P01295216
1 HV lead 15 m long with blue crocodile clip.....	P01295217
1 HV lead 15 m long with red crocodile clip.....	P01295218
1 HV lead 15 m long with black crocodile clip (EARTH)	P01295219
Standard bag for accessories	P01298066
Fuse FF 0.1 A - 380 V - 5 x 20 mm - 10 kA (set of 10)	P03297514
2P EUR mains power cable	P01295174
Serial Printer No. 5	P01102903
Series-parallel adapter	P01101941
MegohmView software.....	P01101938A
DataView® software	P01102058
RS 232 PC cable DB 9F - DB 25F x2	P01295172
RS 232 printer cable DB 9F - DB 9M N°01.....	P01295173



C.A 6549 megohmmeters are delivered with a bag, 3 m leads terminated with large, totally-insulated, built-in crocodile clips, 2 measurement leads and a guarded lead for high insulation measurements.

The European leader in measurement

Three complementary businesses, global expertise

Chauvin Arnoux's role as a French instrument manufacturer and its work to implement energy management and control systems place it at the heart of the electrical measurement business and the Group is now acknowledged as a major player in the electrical sector, as well as a leader in the temperature measurement market.

Designing new and better ways to "measure" the future every day

From transformation of the raw materials through to after-sales service, our teams strive to innovate every day in order to provide a global solution meeting the needs of cutting-edge industries, tertiary infrastructures and self-employed electricians.

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