







# Instruments built for on-site use!

In their compact hard cases, megohmmeters C.A 6541 and C.A 6543 give you the very best in insulation testing technology. These microprocessor-controlled instruments are equipped with highly advanced functions for measurement of insulation (up to 4 T $\Omega$  at 50 V to 1000 V), AC/DC voltage, continuity at 200 mA, resistance, capacitance...

Model C.A 6543 also comes with a rechargeable battery, memory and an RS232 serial link, enabling you to control the instrument with a PC. This also makes it possible to transfer data from memory for processing via the specially developed software package. In short, these are professional instruments built for use by professionals!



# **Expert insulation analysis at 50 V to 1 kV!**

## POLARISATION INDEX (PI) AND DIELECTRIC ABSORPTION RATIO (DAR)



Insulation test results on rotating machines can be rendered inaccurate due to transient eddy currents that interfere with the measurement before they cancel out. To eliminate their influence on the test it is necessary to measure over a long duration. The absolute insulation value, read off at the end of the measurement, and the calculation of PI and DAR coefficients (automatic on the C.A 6541 and 6543) go to make it possible to qualify the quality and ageing of insulation.

PI = R10min / R1min	DAR = R1min / R30s	Insulation quality	
< 1 or < 2	< 1.25	inadequate, dangerous even	
from 2 to 4	from 1.25 to 1.6	good insulation	
> 4	> 1.6	excellent insulation	

#### TIME-CONTROLLED TESTING



Insulation measurements sometimes take a long time to stabilise due to transient eddy currents. The ability to be able to carry out measurements over a longer duration, and to analyse the

insulation as a function of the test voltage application time, gives a better understanding of the quality of the insulation.

## **GRAPH PLOTTING R(t)**



When a time-controlled test is begun, the C.A 6541 and 6543 automatically sample and memorise insulation values, at a rate specified by the operator. The R(t) graph can then be

plotted out using these values, either by hand or directly on a PC screen using the software for the C.A 6543.

# BARRING OF INSULATION TEST VOLTAGES



To entrust the instrument upon someone that is perhaps less experienced, or to avoid procedural errors on sensitive installations or

errors on sensitive installations or equipment, it is possible to prohibit the use of each of the insulation test voltages (50 V, 100 V, 250 V, 500 V or 1000 V).

### **SMOOTH FUNCTION**



When measurement values are unstable, this function smoothes out the

values displayed, making them easier to read and quicker to interpret.

# PROGRAMMABLE ALARMS



For each of the functions a high or low alarm threshold can be stored which, if

exceeded, will trigger a visual warning signal on the display as well as an audible buzzer.

#### **MEMORISATION (C.A 6543)**

The C.A 6543 has an internal memory for the storage of several thousands of measurements. Measurements are stored by classification according to the OBJ (= object) and TEST (= test) address, for systematic memory storage of results. This enables the recording of different tests (TEST) made on particular machines or installations (OBJ).

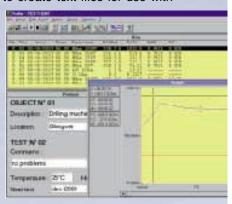
### **PRINTER (C.A 6543)**

A compact serial printer, available as an accessory (ref. P01.1029.03), can be connected to the C.A 6543, enabling you to print out there and then, whilst on site. It is also possible to use a parallel office printer, using the 'serial-to-parallel adapter' accessory (ref. P01.1019.41).

#### SOFTWARE (C.A 6543)

The PC software makes it possible to store data in memory, to plot graphs showing the progression of insulation against test voltage application time = R(t), to print out personalised test protocols depending on the user's needs, to create text files for use with

s p r e a d s h e e t s (Excel™...) and also to set up and have complete control of the instrument via the RS232!



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Metrology	C.A 6541 and C.A	6543	A		
INSULATION (1)(2)		The second second	A Comment		
Test voltages	50 V 100 V 250 V	500 V 1000 V			
Range	$2k\Omega200G\Omega$ $4k\Omega400G\Omega$ $10k\Omega1T\Omega$				
Resolution Accuracy	from $1k\Omega$ to $1G\Omega$ depending +/- (5%R + 3 cts) from $2k\Omega40G\Omega$ the				
Barring of test voltages	for each test voltage				
RESISTANCE (1)	0.01 Ω400 kΩ			Alban marray 1 to 2	
Range Resolution	from 0.01 $\Omega$ to 100 $\Omega$ depend				
Accuracy	+/- (3%R + 3 cts)				
CONTINUITY (1)			A LA	1 . //-	7.
Audible beep	Yes	93		1 1	10
Range	0.01 Ω40 Ω				
Resolution Accuracy	0.01 Ω +/- (3%R + 4 cts)				
Measurement current	> 200 mA (0.01 19.9				
Lead compensation	Yes			44	
Service L	Company of the Compan	The second second	4		
Automatic voltage to		da) or DC			
Range Resolution	11000 V AC (16420H	IZ) OF DO			
Accuracy	+/- (1%R + 3 cts				
Automatic capacitar	nce test				
Range	0.005 4.999 μF				
Resolution	1 nF				
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