

## REPLACEMENT GUIDE FOR OLD WAYNE KERR MODEL

	<b>OLD MODEL</b>	<b>REPLACEMENT MODEL</b>
	<b>4265 100kHz</b> <b>4270 1MHz</b> <b>AUTOMATIC LCR METER</b>	<b>4300 SERIES</b> <b>LCR METER</b>
Available	Made between 1996 and 2013	First made in 2009 and still in production
Basic Accuracy	0.1%	
Frequency Range	4265: 50Hz to 100kHz 4270: 50Hz to 1MHz	20Hz to 100kHz

The 4300 models have some significant improvements compared to the older ones:

- Extra measurement parameters (Reactance X, Conductance G, Susceptance B and Admittance Y)
- Faster measurement speed (17ms compared to 100ms)
- DC resistance as standard
- 20 setups can be stored to memory
- USB, LAN, GPIB and RS232 all standard interfaces
- 4 BNC connections allow all standard Wayne Kerr fixtures and leads to be used

The 4265 and 4270 were the only models which used the non-standard 8-pin Lemo connector to connect to the device under test. All current Wayne Kerr instruments use the standard 4-BNC 4-terminal pair connection method, and so all Wayne Kerr accessories currently available are interchangeable. The following table contains the key specification features. Further details are available on request.

### **6425 COMPARISON WITH 6430B & 6440B**

<b>Function</b>	<b>Model</b>		
	<b>4265</b>	<b>4270</b>	<b>4300</b>
Description	Automatic LCR Meter		LCR Meter
AC Measurement Parameters	Impedance (Z) Phase Angle ( $\theta$ ) Capacitance (C) Dissipation Factor (D) Inductance (L) Quality Factor (Q) Resistance (Rac)		Impedance (Z) Phase Angle ( $\theta$ ) Capacitance (C) Dissipation Factor (D) Inductance (L) Quality Factor (Q) Resistance (Rac) Conductance (G) Susceptance (B) Reactance (X) Admittance (Y)
DC Resistance	Option		Standard
Equivalent Cct	Series or Parallel		Series or Parallel
Frequency Range	50Hz – 100kHz 204 steps	50Hz – 1MHz 1903 steps	4310R: 20Hz – 100kHz 557 points 43100R: 20Hz – 1MHz 737 points
Basic accuracy	$\pm 0.1\%$		
AC drive level (rms)	50mV, 1V & 2V 3 levels	50mV – 2V 10mV steps	10mV – 2V 10mV steps
Input impedance	100 $\Omega$ / 400 $\Omega$		100 $\Omega$
DUT V/I monitor	Yes		No
DC bias voltage	2V internal 40V external	0 - 10V internal 40V external	2V internal 40V external
Best Measurement Time (AC)	100ms		17ms
Bin Handler	Option		
Automatic parameter selection	Yes		User selected
Contact Check	No	Yes	No
Setup memory	No		20 setups



Interfaces	GPIB - option RS232 – option Only one interface can be fitted	GPIB RS232 USB LAN
Connection to Device Under Test	8-pin Lemo connector	4 BNC
AC Power	100 / 120 / 220 / 240V selectable 50 to 60Hz	90 – 264V autoranging 45 to 63Hz
Size (H x W x D)	105 x 315 x 405mm	104 x 322 x 285mm
Weight	5kg	3kg