

REPLACEMENT GUIDE FOR OLD WAYNE KERR MODEL

	OLD MODEL	REPLACEMENT MODEL
	B905 AUTOMATIC PRECISION BRIDGE	4310 LCR METER
Available	Made between 1979 and 1995	First made in 2009 and still in production
Basic Accuracy	0.05%	0.1%
Frequency Range	100Hz, 1kHz, 10kHz + 1	20Hz to 100kHz

The recommended replacement for the B905 is the 4310. If better basic accuracy is required then the 6430B model is suggested. The 4310 has some significant improvements compared to the older model:

- Higher maximum frequency of 100kHz
- Many more measurement frequencies – 557 steps
- Extra measurement parameters Z Y θ B X Rdc
- Wider AC Drive range (1mV to 10V_{rms})
- Faster measurement speed 20ms
- DC resistance as standard
- Larger and easier to read display
- Autoranging AC input voltage
- More accessories available to suit BNC connections

The following table contains the key specification features. Further details are available on request.

**B905 COMPARISON WITH 4310**

Model Number	B905	4310
Basic Accuracy	0.05%	0.1%
Test frequencies	100Hz 1kHz 10kHz + 1 other	20Hz to 100kHz 557 steps
Measurement functions	L C R Q D G	Z Y θ L Q C D R B G X
AC Drive Level	Adjustable 2.5V, 5V 2.5mA, 5mA range dependent	Adjustable 10mV to 2V 100 μ A to 20mA
Measurement Time	350ms	25ms
DC resistance	No	Standard
Connections	Two tri-axial sockets for 2, 3 & 4 terminal connections. JU4 Component Adaptor	4 terminal via BNC Kelvin leads 1EV1006 Component Fixture
Equivalent circuit	Series / parallel	Series / parallel
DC bias voltage	2V (internal) 50V (external)	2V (internal) \pm 40V (external)
Binning	05 option	/B1 & /B2 option
Display	Twin 5 digit LCD for results	Black / white 320 x 240 pixels
Interfaces	RS232: 02 option GPIB: 03 option Analogue: 04 option	GPIB (IEEE488-2) RS232 USB LAN
Power	115/230V AC 50Hz Switchable	90 to 264V AC Autoranging
Mechanical	145mm (H) 430mm (W) 450mm (D) 8.9kg	104mm (H) 322mm (W) 285mm (D) 3kg