REPLACEMENT GUIDE FOR OLD WAYNE KERR MODEL

	OLD MODEL	REPLACEMENT MODEL
	6425 PRECISION COMPONENT ANALYZER	**6430B PRECISION COMPONENT ANALYZER**
Available	Made between 1984 and 1998	First made in 1999 and still in production
Basic Accuracy	0.05%	0.02%
Frequency Range	20Hz to 300kHz	20Hz to 500kHz

The recommended replacement for the 6425 is either 6430B or 6440B, depending on what maximum measurement frequency is required. The 6430B/6440B models have some significant improvements compared to the older model:

- Higher maximum frequency (500kHz for 6430B and 3MHz for 6440B)
- Many more measurement frequencies (>1,000 steps)
- Better measurement basic accuracy (0.02% from 0.05%)
- Extra measurement parameters (Susceptance B and Reactance X)
- Wider AC Drive range (1mV to 10V_{rms})
- Faster measurement speed
- DC resistance
- Multi Frequency Mode
- Graph Mode

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

6425 COMPARISON WITH 6430B & 6440B

Model	**6425**	**6430B**	**6440B**
Basic Accuracy	0.05%	0.02%	
Test frequencies	20Hz to 300kHz 42 steps	20Hz to 500kHz >1,000 steps	20Hz to 3MHz >1,800 steps
Measurement functions	Z Y θ L Q C D Rac G	Z Y θ L Q C D Rac B G X	
AC Drive Level	10mV to 5V 1mA to 100mA	1mV to 10V 50uA to 200mA	
Measurement Time	125ms	50ms	
DC resistance	No	Yes	
Connections	4-terminal via BNC Kelvin leads		
Equivalent circuit	Series / parallel		
DC bias voltage	0 to 20V (internal) 50V (external)	2V (internal) ±60V (external)	
Multi Frequency	No	Test at 8 different frequencies with individual PASS/FAIL limits	
Graph	No	/E option	Standard
Display	7 inch CRT	320 x 240 pixel LCD	
GPIB Interface	02 option	Standard	
RS232C Interface	03 option	No	
Bin Handler	04 option	B1 or B2 option	
Analogue Interface	01 option	No	
Power	115/230V AC Switchable 50/60Hz		
Mechanical	195mm (H) 443mm (W) 470mm (D) 16kg	150mm (H) 440mm (W) 525mm (D) 11kg	