



Wayne Kerr Electronics

SHORTFORM CATALOGUE

LATEST MODELS

6530A (1kHz - 50MHz) & 6540A (1kHz - 120MHz) Precision Impedance Analyzers

3255BL (20Hz - 200kHz) Inductance Analyzer

3265B/5A & 3265B/10A (5Amp & 10Amp) DC Bias Units

CLASSES AT A GLANCE

X CLASS: LEADING EDGE TECHNOLOGY

6520A 6530A 6540A Precision Impedance Analyzers

S CLASS: PREMIUM TECHNOLOGY

3260B Precision Magnetics Analyzer 3255B/BL/BQ Inductance Analyzers
6430B & 6440B Precision Component Analyzers 3265B/BQ/5A/10A/25A DC Bias Units

P CLASS: PRODUCTION TECHNOLOGY

4234 - 4237 LCR Meters 7720/C2/C4/C6/C8 Impulse Testers
4230, 4265 & 4270 LCR Meters 8681 & 8687 Cable Testers
4255 & 4275 LCR Meters

X CLASS: LEADING EDGE TECHNOLOGY

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X Class Models are the latest, top-of-the-range units from Wayne Kerr. They have been designed to meet the most recent market requirements and use the latest technology in order to give the customer a wider frequency range and better accuracy at an unbeatable price.

Precision Impedance Analyzers:

6520A (1kHz – 15MHz)

6530A (1kHz – 50MHz)

6540A (1kHz – 120MHz)

All 0.05% basic accuracy



The 6500 range of Precision Impedance Analyzers is aimed at a wide variety of users, including designers of passive components, testers of dielectric materials and those responsible for manufacturing test. They allow high frequency impedance measurements (120MHz with 6540A) which can be used for precise component characterisation.

Rapid measurement speed and comprehensive measurement functions make these models extremely powerful. An intuitive user interface and large TFT touch screen make them simple and quick to use. Extremely fine frequency sweep resolution allows the precise and rapid measurement of resonant frequencies.

Direct printer output, network interfaces, a choice between touch screen or keyboard/mouse and the ability to output results into spreadsheets are all standard features.

S CLASS: PREMIUM TECHNOLOGY

S Class Models are designed to be used where accuracy and functionality are paramount.

Precision Component Analyzers:

6430B (20Hz – 500kHz)

6440B (20Hz – 3MHz)

0.02% basic accuracy

The 6430B & 6440B Precision Component Analyzers provide accurate high resolution testing of all types of passive components. They are especially suitable for capacitor manufacturers who are looking for fast automatic production testing and complete design characterisation.



C L Z Y X B Rac Rdc G Q D Ø

Resonant Frequency, Graphical Sweep, Multi-frequency capacitor, Binning, GPIB

Inductance Analyzers:

3255BL (20Hz – 200kHz)

3255B (20Hz – 500kHz)

3255BQ (20Hz – 1MHz)

0.1% basic accuracy

The 3255B is a versatile and accurate inductance analyzer which can be used to characterise wound components in a clear and simple manner



C L Z Rac Rdc Q D Ø Primary L+Q, Primary & Secondary Leakage Inductance, Interwinding Capacitance, Turns Ratio, DC Bias, Sequence Test, Binning, GPIB

Precision Magnetics Analyzer:

3260B (20Hz – 3MHz)

0.1% basic accuracy

The 3260B is a sophisticated and flexible magnetics analyzer which can be used to perform all the common measurements required when designing or testing transformers and other wound components.



Z Ø L C Rac Rdc Q D Primary L+Q, Primary & Secondary Leakage Inductance, Interwinding Capacitance, Resonant Frequency, Turns Ratio, DC Bias, Sequence Test, Insulation Test, Binning, GPIB

High Current DC Bias Units:

3265B/5A 0 - 5A DC

3265B/10A 0 - 10A DC

3265B/25A¹ 0 - 25A DC

1% basic accuracy

The 3265B range is designed to supply high DC bias currents for 3255B & 3260B range of analyzers.

The 3265BQ/ version of these 3 models extends their upper frequency limit to 3MHz for use with the full 3260B frequency range

¹ previously 3265B



Multiple units (maximum of 5) of the same type can be used to increase total DC bias current. The maximum current possible is 125A from five 3265B/25A or 3265BQ/25A units

P CLASS: PRODUCTION TECHNOLOGY

P Class offers outstanding value for money whilst retaining many S Class features.

LCR Meters:

4234 (20Hz – 100kHz) 4235 (20Hz - 200kHz)

4236 (20Hz - 500kHz) 4237 (20Hz - 1MHz)

0.2% basic accuracy



The 4234 - 7 range not only measures all the parameters normally found in a standard LCR meter, but it measures many more in addition to give a truly versatile instrument. GPIB and Handler interfaces are included as standard.

LCR Meters:

4230 (100Hz – 200kHz)

4265 (50Hz – 100kHz)

4270 (50Hz – 1MHz)

0.1% basic accuracy



These models combine superior performance, measurement functions and a low price providing unbeatable value for money. Operation is simple and straightforward with measurements undertaken at a wide range of test frequencies and voltage levels.

LCR Meters:

4255 (20Hz – 500kHz)

4275 (20Hz – 3MHz)

0.1% basic accuracy



These 2 models provide economical, thorough and accurate testing of passive components. They offer fast measurement speeds (50ms), comprehensive measurement functions and a large LCD display with intuitive user interface.

Impulse Testers:

7720/C2/C4/C6/C8 - 2, 4, 6 & 8 port versions



Impulse testers are used to provide high voltage non-destructive analysis of windings. This allows the detection of faults which are difficult to find, such as shorted turns, damaged insulation and change of material. These models have a programmable impulse voltage to 5kV and built-in statistical analysis.

Cable Harness Testers:

8681 - 256 test points

8687 - 128 test points with 4-wire connections



These models allow fast automatic production testing by automatically learning the pin connections of a good harness. They have many standard measurement functions including open/short, conductance, resistance, capacitance, diode and hipot test (1000V ac and dc). The number of test points can be doubled (option), and statistical reports can be produced.

ACCESSORIES FOR USE WITH X, S & P(LCR) CLASS MODELS

| | | | |
|-------------|------------------------------------------------------------|-----------|-----------------------------|
| 1EVA40100 | Kelvin Clips (Fine Jaw) | 1EVA40120 | SMD Tweezers (BNC) |
| 1EVA40180 | Kelvin Clips (Large Jaw) | 1EVA40140 | SMD Tweezers (to suit 4265) |
| 1EV1505 | 4-terminal lead (BNC to croc clip) | 1EV1905A | SMD probe lead |
| 1J1009 | High Current Fixture | 1J1100 | Protection Unit |
| 5-328-2005 | 50A lead set for 1J1009 | | |
| 1JFX-0000C1 | 4 terminal component fixture (for use with P class models) | | |
| 1EV1006 | 4-terminal component fixture (1MHz) | | |
| 1EV1005 | 4-terminal component fixture (with trigger button) | | |

MESCO VIEW SOFTWARE (for use with S Class models)

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|------------|---------------------------------------------|
| 093M/VSTD | Standard Control & View Software |
| 093M/VPROF | Professional Control, View & Graph Software |

SCANNERS (for use with S Class models)

| | |
|--------|--------------------------------------|
| 1J415T | 15 Measurement points Kelvin Scanner |
| 1J430T | 30 Measurement points Kelvin Scanner |

DC POWER SUPPLIES

| | |
|------------|------------------------------------------------------------------------------|
| PSH Series | Single Output. Programmable. Voltages to 60V. Currents to 100A. RS232. |
| PSP Series | Single Output. Programmable. Voltages to 60V. Currents to 10A. RS232. |
| PSS Series | Single Output. Programmable. Voltages to 32V. Currents to 5A. RS232 or GPIB. |
| PST Series | Triple Output. Programmable. Voltages to 32V. Currents to 5A. RS232 or GPIB. |
| GPT Series | Quad Output. Voltages to 30V. Currents to 3A. |

RF AUTOMATIC MODULATION METERS

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|--------|----------------------------------------------|
| 257/01 | 2GHz Automatic Modulation Meter |
| 257/03 | 2GHz Automatic Modulation Meter with Battery |
| 257/05 | 2GHz Automatic Modulation Meter with GPIB |

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