

## Impulse Winding / Surge Tester – 7720/C2, /C4, /C6 & /C8

- 200 V to 5 kV production testing of manufactured components
- Non-destructive analysis of winding
- One button go / no-go testing
- Multi winding
- Identifies faulty manufacture without damaging components
- Straightforward intuitive operation
- Corona/flutter testing
- Built in statistical analysis
- Low cost for economical tests
- 2, 4, 6 & 8 port versions

### High voltage non-destructive analysis of winding identifies difficult to detect manufacturing faults

There are a number of parameters that can change during manufacture that may affect the performance of a winding. These parameters, which cannot always be measured with an LCR meter, include change in material as well as shorted and damaged windings.

The 7720 Impulse Winding Tester uses a very high voltage impulse to stimulate the device under test (DUT). It analyzes the decay waveform to detect changes in material, shorted and damaged windings and other errors. Long term decay of a winding can also be detected.

The system used ensures that the component is tested but not damaged during the analysis process.

The shape of the waveform is dictated by the Q factor, inductance and stray capacitance of the winding. High Q shows as a slow decay and the frequency of the waveform is determined by the inductance and stray capacitance of the DUT. Importantly, the short high voltage pulse causes no damage to the device under test.

### Simple operation, powerful detection capability and inexpensive ... a winning combination

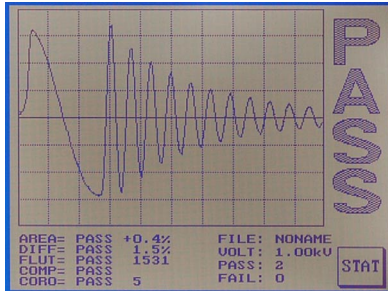
The 7720 provides an important test capability in the production process for any wound component manufacturer.

Early detection of component faults is a key feature of the 7720. Faulty material, manufacturing process defects and bad components can be identified early in the process. This saves money for the manufacturer and it ensures the quality of the product supplied to the customer.

The 7720 has also been designed with ease of use in mind - using a large visual display, graphical format and straightforward intuitive operation. The 7720 provides all this capability at a very attractive price.

### Production test software

7720 is fully programmable through its RS232 port by a PC. Component readouts can be stored against serial numbers to ensure thorough and rigorous testing of components.



Clear and simple display with automatic PASS/FAIL

## Technical specifications

### Impulse Winding / Surge Tester - 7720

#### Measurement Parameters

- Area under curve
- Differential area size
- Flutter (corona) value
- Waveform comparison.

#### Voltage Range

200 V to 5 kV (100 V Steps)

#### Test Voltage Accuracy

±2%

#### Measurement Time

50 ms

#### Memory

200 waveforms

#### Interfaces

RS232, parallel printer

#### Measurement Connections

- /C2: 2 self latching connectors
- /C4: 4 self latching connectors
- /C6: 6 self latching connectors
- /C8: 8 self latching connectors

#### Display

320 x 240 dot with back lighting

#### Power requirements

115/230 V ±10%, 50/60 Hz

#### Operation temperature range

0°C to 40°C

#### Storage temperature range

-40°C to 70°C

#### Relative humidity

Up to 75%

#### Dimensions

W 440 mm, H 145 mm, D 540 mm

#### Weight

20 kg

### Order code

Description	Order code
7720 2 port Impulse Winding Tester	<b>1J7720/C2</b>
7720 4 port Impulse Winding Tester	<b>1J7720/C4</b>
7720 6 port Impulse Winding Tester	<b>1J7720/C6</b>
7720 8 port Impulse Winding Tester	<b>1J7720/C8</b>

Supplied with:-

- User manual
- 2 m AC power cable
- Test connectors

#### UK

Wayne Kerr Electronics  
Vinnetrov Business Park  
Vinnetrov Road, Runcton  
Chichester, West Sussex  
PO20 1QH, UK  
Tel: +44 1243 792200  
Fax: +44 1243 792201

#### USA

Wayne Kerr Electronics  
165L New Boston Street  
Woburn  
MA 01801-6201 USA  
Tel: +1 781 938 8390  
Sales: (800) 933 9319  
Fax: +1 781 933 9523

Wayne Kerr's policy is one of continuous development and consequently the product may vary in detail from the description and specification in this publication.