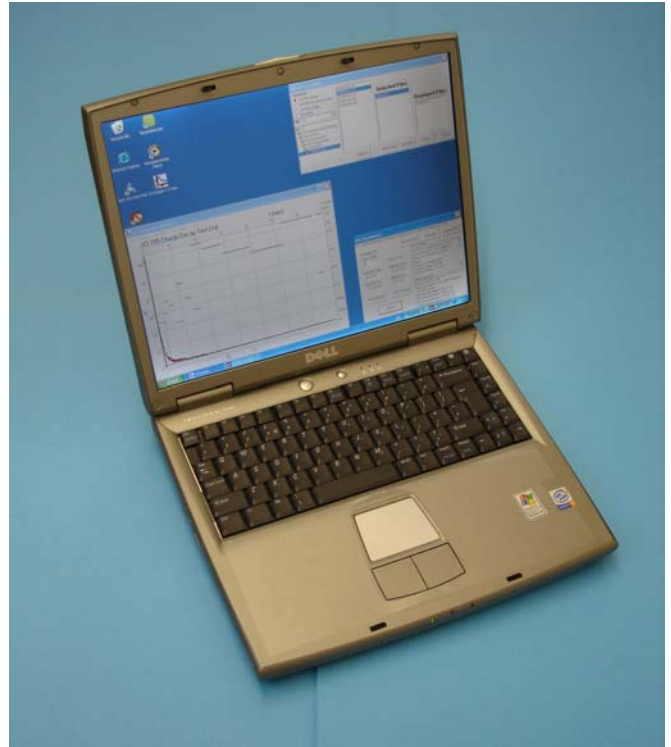


JCI 400 Data Station

A Laptop computer system for online and offline display and analysis of measurements with a JCI 155v5 Charge Decay Test Unit



DESCRIPTION: The JCI 400 Data Station is based on a Dell 'Inspiron' Laptop computer to run JCI-Graph software for the display and analysis of corona charge decay and capacitance loading measurements with JCI 155v5 Charge Decay Test Units.

Data for each charge decay test run (test conditions as well as measurements) is stored to the memory card fitted into the JCI 155v5. This data may be extracted and stored to the 'JCI-Graph Data' folder in the JCI 400 either off-line or on-line. For off-line data transfer the memory card is either inserted into the PCMCIA card slot of the JCI 400 or inserted into a card reader linked to the USB data port. For on-line data transfer and control of instrument operation the JCI 155v5 can be connected by its RS232 serial port to one of the two USB ports on the JCI 400 via a Belkin USB serial adapter.

Microsoft Office software enables JCI-Graph results to be handled and displayed using wordprocessing and spreadsheet facilities. Graphical displays, text data and summary tables created by JCI-Graph can be transferred into Word documents or Power Point presentations. These can then be printed out or emailed to customers or colleagues.

Both the JCI 155v5 and the JCI 400 can be operated for several hours on their integral batteries. Together they thus provide truly mobile test and data

processing facilities for assessing the electrostatic suitability of materials. This can be particularly convenient for in-plant and off-site studies as well as for laboratory work.

Full descriptions of the features, performance and application of JCI 155v5 instruments and JCI-Graph software are provided on the JCI Website (www.jci.co.uk). Also on the Website are the user manuals, documents describing test procedures and papers reporting various studies that have been made.

Why bother about static?

Many materials, in particular plastics, easily become electrostatically charged when rubbed against other materials. Such 'triboelectric' charging causes problems in many areas of industry. It can cause ignition of flammable gases and give shocks to personnel. It can make thin films and light fabrics cling, attract airborne dust and debris, damage semiconductor devices and upset the operation of microelectronic equipment.

The risks and problems arising from static electricity are best avoided by ensuring that static charge can dissipate over and through the surfaces of materials and away to earth more quickly than charge is generated. For normal manual handling and body motion activities this means the charge decay is preferably below 1/4 second.

SPECIFICATION

<i>Computer:</i>	<ul style="list-style-type: none">• Dell 'Inspiron' 5160 Laptop computer
<i>Processor:</i>	<ul style="list-style-type: none">• Pentium P4. (3.2GHz, 533MHz FSB, 1M cache)
<i>Memory:</i>	<ul style="list-style-type: none">• 512MB 333MHz
<i>Keyboard:</i>	<ul style="list-style-type: none">• English QWERT keyboard
<i>Hard drive:</i>	<ul style="list-style-type: none">• 40GB (5400) IDE hard drive
<i>CD & DVD:</i>	<ul style="list-style-type: none">• 24X CDRW/8XDVD Combo drive
<i>Power supply:</i>	<ul style="list-style-type: none">• 130W AC Adaptor• Primary 96Whr 12 cell battery
<i>PCMCIA card port:</i>	<ul style="list-style-type: none">• one PC Type II card slot
<i>USB:</i>	<ul style="list-style-type: none">• two USB connectors
<i>S Video:</i>	<ul style="list-style-type: none">• S-video/TV-out connector
<i>Modem:</i>	<ul style="list-style-type: none">• 56k integral Modem. Modem cable and adaptor
<i>Networking:</i>	<ul style="list-style-type: none">• Integrated 10/100 Network card
<i>Video:</i>	<ul style="list-style-type: none">• Video output connector
<i>USB Serial Adapter:</i>	<ul style="list-style-type: none">• XP compatible Belkin Model F5U103 for linking 8w mini-DIN to 9w D type serial interface cable to USB port of computer
<i>Software:</i>	<ul style="list-style-type: none">• MS Office 2003, Adobe Acrobat 6.0, McAfee Security 90 day trial• JCI-Graph 2-2-0
<i>Dimensions:</i>	<ul style="list-style-type: none">• 350x275x50mm. Weight: 5 kg

HELP LINE

JCI offers consultancy through which we advise and assist customers who need to assess and overcome problems with static electricity. We also test customer materials for static charge dissipation and capacitance loading performance.

*For further details contact
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The business of JCI is the design, development, manufacture and marketing of high quality instruments for electrostatic measurements. JCI also carries out electrostatic testing of materials, consultancy and calibration of JCI instruments to BS 7506: Part 2: 1996.

For further information contact Dr John Chubb at:

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Instrumentation