

Electrostatic Charge Decay Time Analyser

jci
Chilworth



JCI 155v6
with JCI 176 Base

Technology at work for you



JCI CHILWORTH

1983 JCI—JOHN CHUBB INSTRUMENTATION FOUNDED

2009 ACQUIRED BY CHILWORTH GLOBAL, THE INTERNATIONAL PROCESS SAFETY EXPERTS, BECOMING **JCI CHILWORTH**

22 THE NUMBER OF INSTRUMENTS JCI CHILWORTH MANUFACTURES & SUPPLIES

37 THE CURRENT NUMBER OF COUNTRIES JCI SUPPLIES ELECTROSTATIC EQUIPMENT TO AROUND THE WORLD



THE NEW JCI 155V6 CHARGE DECAY ANALYSER

Two years in development, JCI Chilworth is proud to announce the next generation of our highly successful electrostatic charge decay analyser, the **JCI 155v6**. A comprehensive advance on previous generations of electrostatic decay analyser, we believe this new monitor outperforms all others on the market today.

the flexible solution for electrostatic analysis

JCI 155v6 - ADVANCES IN USABILITY

- **User friendly** interface with simple setup of run parameters and comparative presentation of results
- **Live, on-instrument display** of test results (v5 does not display graphs)
- Calculation and **display of capacitance loading** on the instrument (v5 only via JCI Graph)
- **Enhanced LCD display** with dimmable back light (v5 simple alphanumeric)
- **Download and display of test descriptions** to instrument (v5 description visible in JCI Graph only)
- **1024 samples per second** rate (v5 = 512 per second) with higher resolution to improve accuracy of results
- **Software updates downloadable** from the Web
- **Driverless USB interface** to PC (v5 = serial RS232)
- **High resolution 19 bit** sampling

- **Battery life of over 8 hours** (v5 around 4 hours)
- **Full charge time of 2 hours** (v5 4 hours)
- **Lower power mode**, auto power-down and multiple run auto-termination options

NEW JCI 155v6 DESIGN PRINCIPLES

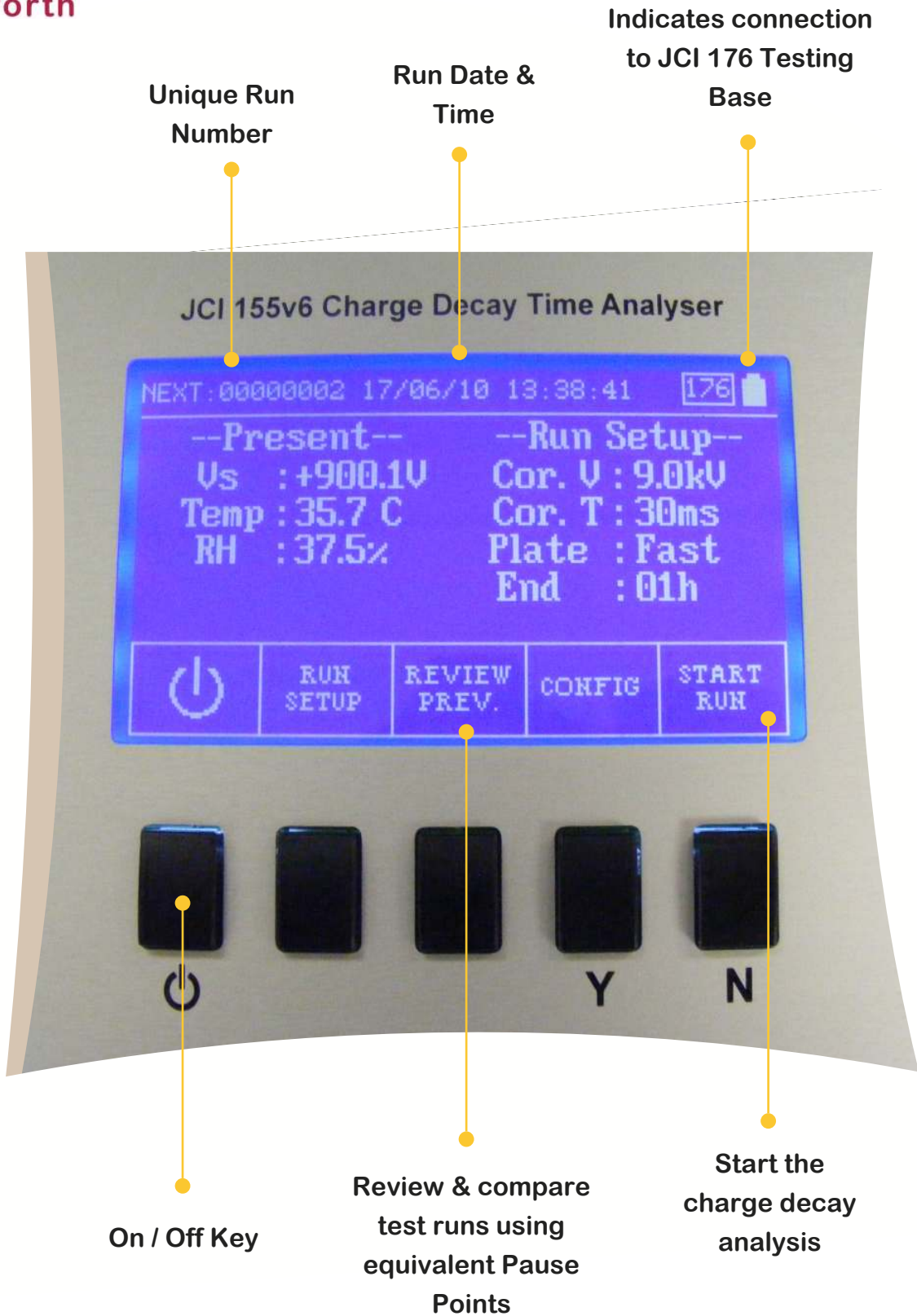
The JCI 155 charge decay analyser is a sophisticated instrument and the culmination of incremental developments carried-out over many years by Dr John Chubb and continued by JCI Chilworth. It is designed to achieve full functionality independent of a host PC yet can uplink to a PC for test data and instrument control.

Intuitive and portable, the v6t charges in half the time of the v5 (just 2 hours) and yet has double the battery endurance (8 hours) with the option to power from mains supply also. The new analyser provides a unique, all-in-one package capable of measuring charge decay times for materials as a key indicator of such static problems as:

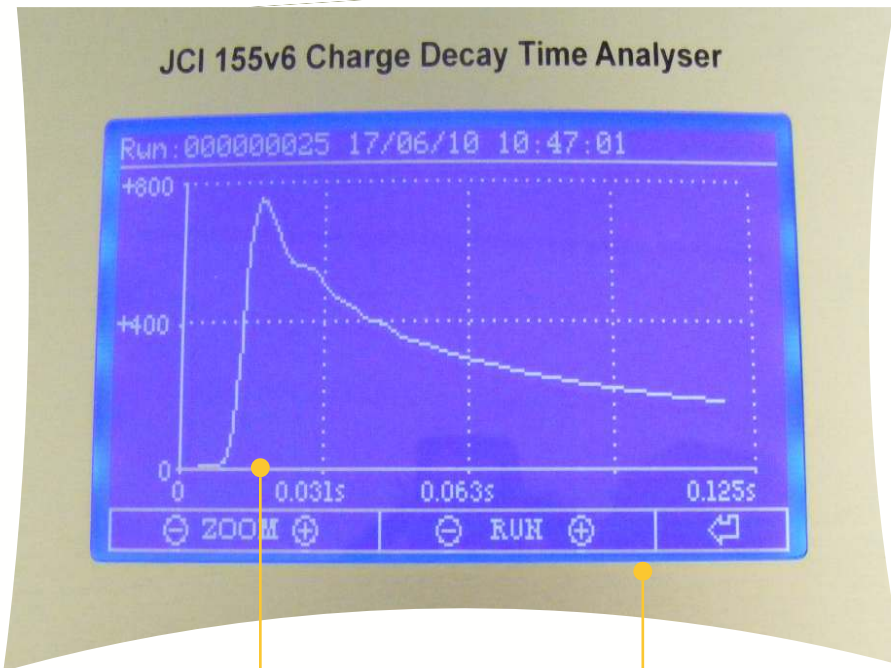


material flow issues
surface contamination
personnel shocks quality control
equipment damage ignitions
explosions low-productivity

The JCI 155v6 is also invaluable for Quality Assurance testing where materials are intended to address or control possible electrostatic problems. Especially useful is the ability to place the unit onto the surface to be tested. Using the JCI 176 charge measuring sample support base (included), and other accessories, ensures a wide range of materials including textiles, rubbers, paper, plastics, powders or liquids can be tested to name but a few.



user friendly, intuitive on-screen operation



Clear, 'real-time' graphical outputs are now supported for the first time

Users can zoom in and out to analyse data on screen

JCI155 v6 New Back-Lit LCD Screen

The JCI155v6 features a back-lit LCD screen making operation more intuitive and graphical displays crystal clear. The new screen also displays available menu options and also run-descriptions imported from the JCI Graph software. Easily read and clearly set-out, the JCI 155v6 has a user friendly and comprehensive on-screen operation allowing easy comparison between test runs using the 'review previous' feature on-screen.



USB CONNECTIVITY



Full firmware download capability via USB

TESTING BASE FLEXIBILITY

The independent use of the JCI 176, or the JCI 176/173 sample support bases, ensure direct measurement of charge transfer for a wide range of samples including powders, liquids & textiles



Technology at work for you

THE LATEST **JCI 155v6** **CHARGE DECAY** **ANALYSER**

Many of the useful opportunities presented by static electricity, and many of its risks and problems, relate

to the influence of retained electrostatic charge manifested as surface voltage. In the JCI 155v6 Charge Decay Test Analyser, a high voltage corona discharge is used to deposit a patch of charge onto the surface of the material to be tested. A fast response electrostatic field-meter then measures the voltage generated by this charge and assesses its decay characteristics.

live graphs, user-friendly operation

A FUSION OF TECHNOLOGY

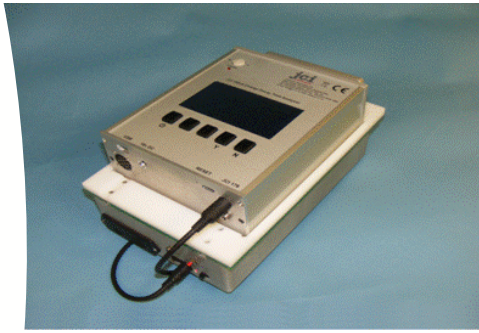
Technologies involved in this new-generation analyser include the latest in electromechanical field-mills giving highly accurate, sensitive and stable measurement of surface potential. The JCI 155v6 can operate standalone or can be linked to PC providing a fast, flexible and intuitive interface for accurate measurements.

DATA SECURITY

The JCI 155v6 also offers levels of data security to provide a secure and flexible return on your investment, whilst helping build your quality and accountability levels

JCI 155V6 FEATURES:

- BATTERY LIFE DOUBLED TO 8 HOURS
- CHARGING TIME HALVED TO 2 HOURS
- SPEED DOUBLED TO 1024 SAMPLES PER SECOND
- HI-RESOLUTION 19-BIT SAMPLING
- DIMMABLE LCD GRAPHIC DISPLAY



As a current or new user of the new **JCI 155v6**, we are confident that you will want to know more about its capabilities and features so have prepared an exclusive launch video and 'step-through' demonstration of the new analyser on our JCI 155v6 dedicated microsite, details below -



**JOIN OUR EXCLUSIVE LAUNCH VIDEO
AND 'STEP-THROUGH' DEMONSTRATION
ON OUR LAUNCH MICROSITE NOW -
www.jci.co.uk/155v6**



**we look
forward to being
of assistance**

In addition, you can request full technical specifications, or contact a JCI specialist using the contact details on the right.

We are also running a series of online Webex launch events at a date and time to suit you, contact us today for an online invitation.

JCI Chilworth's experts are always on-hand to answer your 155v6 questions, or discuss our wider range of solutions for electrostatic measurement and control.

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JCI 155v6 MICROSITE

All the latest launch information, video demonstrations, technical and contact information can be found on our dedicated launch microsite:

www.jci.co.uk/155v6



ELECTROSTATIC PROBLEMS?

For details of Chilworth's broad range of further electrostatic equipment and consultancy, see over..

Chilworth

GLOBAL

CONSULTING
INSTRUMENTS
TESTING
TRAINING

Chilworth Global brings together leading expert consultants in the field of process safety with GLP compliant laboratories providing a single point of contact for all your process safety needs.

Chilworth's laboratories determine electrostatic and flammability data for materials and undertake chemical reaction hazard and regulatory testing. Our Consultant Engineers provide expertise in all aspects of electrostatics (applications, problems and hazards), fire and explosion safety and chemical reaction hazards. For further information on all our products and services, click on:
www.chilworth.co.uk



JCI Chilworth is our brand name for a well established range of electrostatic instruments, of which three are mentioned below:

The JCI178 measures small quantities of charge and charge transfer in electrostatic discharges

The JCI140 Static Monitor is a hand-held proximity voltmeter used in many industries and by electrostatic professionals.

The JCI131 is an electric field meter suitable for use in adverse conditions, including long-term monitoring outdoors.

We also offer a range of optional accessories, consultancy and calibration services which enhance and expand this most comprehensive and exceptional range of quality instrumentation.

For further information on JCI's products and services, click on:

www.jci.co.uk

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