

# Installation Test Equipment



## What customers say about Livingston

“If we certify electrical installations we need to be sure we use top-quality instruments. That is why we rent from Livingston.”

PAUL BOOKMAKER – CERTIFYING ENGINEER – E.I. DEVELOPMENT

“The testing standards change so often that we have stopped buying the test tools. We simply rent the latest tools from Livingston.”

JAMES SOUTHWALL – OWNER SOUTHWALL INSTLALLATIONS

“For this large project we needed 15 installation testers at the same time. Livingston was the only company who could supply the right quantities at the right time.”

JIM PARKHOUSE – PROJECT MANAGER – UNIVERSITY HOSPITAL SERVICE

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**Livingston**  
test equipment rental

## INSTALLATION TESTING

The testing of high voltage electrical installations is vital within today's industrial environments.

Every electrical installation needs to be tested, whether it is in a domestic, office or industrial environment. This testing is critical to ensure the safety of these circuits so that they do not present a risk to people or property due to electrical shock or fire risk due to overheating or short circuiting.

There are a wide range of standards relating to electrical systems. The main standard is BS7671, or the seventeenth edition as it is more commonly known, which is the IEE Wiring regulations for electrical installations. There is also BS EN 61496 Safety of machinery, Electro-sensitive protective equipment.

All electrical installations have to be tested after installation, and those that are in an industrial or safety critical environment should be tested regularly throughout their life. Frequency of inspection will depend on the type of installation.

There are a wide range of products designed specifically for carrying out these tests, many of which are available from Livingston. Such as High Voltage Insulation Test Sets, designed to verify the insulation between the supply conductors and the earth conductor, and the Earth Test Sets designed to verify the Earth continuity down to ground, or the internal earth circuit resistance (also known as Earth Loop Impedance). There are also more specialised



products designed for testing Safety Relays in Industrial Installations and high current injection test sets designed to load high current circuits and test current tripping safety relays.

A tool that is increasing in use for maintenance of Electrical Installations is Thermal Imaging Cameras. These allow the user to view area of an installation and see any areas that are hotter than the surrounding circuits. This can highlight potential areas of high resistance that could be a potential fault. Because of the remote nature of the operation, it means that it is possible to inspect live circuits without having to shut them down.

### What engineers can expect from Livingston:

- › Access to latest installation testing technology
- › Broad product offering
- › Single source for all required test items
- › Selection across a wide price range
- › Wide-ranging technical/application support
- › 24 hours delivery time

### FLUKE 1654 Multifunction Installation Tester



#### specifications

- Fast high current loop test
- Variable RCD current mode for customized settings
- PASS/FAIL indication for RCD tests
- Select voltage measurement between L-N, L-PE and N-PE

### CHAUVIN ARNOUX - C.A 6116 Electrical Installation Tester



#### specifications

- compliance with standards as (IEC 60364-6, NF C 15-100, VDE 100, XP C 16-600, etc).
- Very ergonomics and easy to use
- Quick measurement and high accuracy.

### MEGGER DET4TC2 Portable Earth Resistance Meter



#### specifications

- Attached Rod Technique (ART).
- User selectable test frequency.
- User selectable output voltage.
- Resistance range: 0.01Ω to 200kΩ.

### MEGGER MIT1025 10 kV diagnostic insulation resistance tester



#### specifications

- Measures up to 20 TΩ
- PI, DAR, DD, SV and ramp test
- operate from line power/mains if battery dead
- Advanced memory with time/date stamp

### FLUKE 1555 Isolation Resistance Tester



#### specifications

- Test voltages up to 10 kV provides solutions for all applications
- CAT III 1000 V, CAT IV 600 V safety rating
- Voltage breakdown detection alerts the user that voltage is present and gives the voltage reading up to 600 V ac or dc for increased user safety

### T&R TEST EQUIPMENT - PT30-10 High Voltage Cable Test Set (30kV DC)



#### specifications

- Test voltage: 30kV, 10 mA
- Voltage and Current Metering
- Automatic earth system for dumping capacitive loads
- HV output plug & socket system

## Wide range of Test Instruments now available

By using Livingston as supplier for your test and measurement instrument you will have access to a wide range of different instrument. The rental inventory of Livingston contains over 5.000 different instruments over a wide range of technologies. From basic temperature measurement

instrument to very sophisticated high frequency spectrum analysers. Livingston supply all instrument with a complete package of accessories, a manual and a valid calibration certificate. Ready to use.



Check our online catalogue for all available instruments and actual rental prices:  
[www.livingston.com](http://www.livingston.com)

### Rental, the smartest way to source your equipment:

- › No hidden costs
- › No capital expenditure or investment necessary
- › Cost effective
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- › Try before you buy
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- › Lead-time bridging
- › Rental Replacements
- › Avoid disposal costs liabilities

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