

	Live Line Indicator Model: LLI
Edgumbe	

Introduction

The High Voltage DC Live Line Indicator (LLI) is a battery operated electronic unit that has been specifically designed to test DC systems - with particular relevance to Mass Transit Railway (Metro) & Tram based models. Although usually applied to overhead catenaries they can also be used on "third rail" installations. Proving that the system is de-energised – and can thus be safely earthed – is important to both maintenance staff and system security.

Three versions are available to cover the most common system voltages of 750V, 1500V and 3000V DC.

	<p>Live Line Indicator Kit Each complete kit comprises:</p> <ul style="list-style-type: none"> • DC Live Line Indicator with earth lead & clamp • Bowthorpe Rod Adaptor incorporated into indicator case moulding • Universal Star-wheel Adaptor • Hook, Y and straight electrode • Polymer Cleaning Kit • Instruction manual • Carry Satchel
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Operation & Features

The DC LLI gives both visual (high intensity flashing red LED's) and audible (70dB) alarm should a conductor under test indicate as live. Each version has a threshold setting of approximately 33% of system voltage, above which the line is deemed to be energised.

The unit is first armed with the test button which will cause the alarms to activate and upon releasing the button the red LED's will be replaced by green ones and the audible alarm will stop. The green condition will remain active for about 5 minutes during which time the unit can be applied to the line under test and if the threshold is exceeded the warning alarms will again be activated. Pressing the test button also performs a battery check.

A universal "star wheel" adaptor is also available to connect to other operating poles and alternative clamps are available to suit various earthing systems, e.g. buried rail.



LLI Operation



Special LLI with handles for Rail Networks Operation



LLI Indicator

Live Line Indicator

Voltage Ranges	750V DC 1500V DC 3000V DC
Std Thresholds	250V DC 500V DC 1000V DC (Thresholds can be adjusted for particular requirements)
Resistor Chain	1.5M Ω 3M Ω 6 M Ω
Operating time	5 minutes nominal
Visual indication	LED's
Status – Alarm	Red Flash @ 2Hz
Status - Safe	Green Flash @ 2Hz
Audible indication	Buzzer, 3.1kHz tone modulated @ 2Hz, 70dBA @ 1.5 Metres
Measuring Current	0.50 mA nominal @ rated Voltage
Response Time	1 second maximum
Battery life	250 Operations minimum

High Voltage Instruments Ltd policy is one of continuous development and hence we reserve the right to change specification / design without prior notice



High Voltage Instruments Ltd

1 Wellfield Court
Ibros Business Park
Glasgow UK
G51 2JR

Tel: +44(0)141 440 5800
Fax: +44(0)141 404 2561

web: www.hvil.co.uk

e-mail: sales@hvil.co.uk