

A Railway is not just for Christmas - or Summer its an all-year-round experience

OHM's LAW


$$V=IR$$

V=volts

I= Current (Amps)

R= Resistance (ohms)

Ω Resistance:
Circuit
Unpowered

 Continuity:
Beeps if
almost 0 ohms

V Measure 'across'
powered circuit

A In Series with
Powered Circuit
[often separate terminal for A]

NOTE:
ac for sine waves only
dc for smooth dc volts
WITH BRIDGE for ac/dc/dcc

POWER (Watts)

$$P = I \times V = \frac{V^2}{R} = I^2 R$$

1 Amp = 1000 milli Amps (mA)

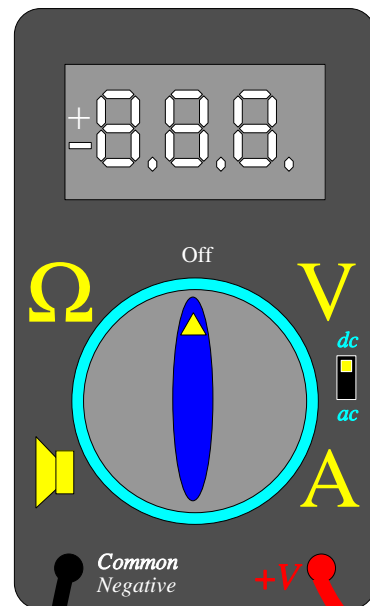
1MA = 1,000,000 Amps !!

EVERY HOME SHOULD HAVE ONE !

A Simple Test Device to help you check your Track Wiring etc

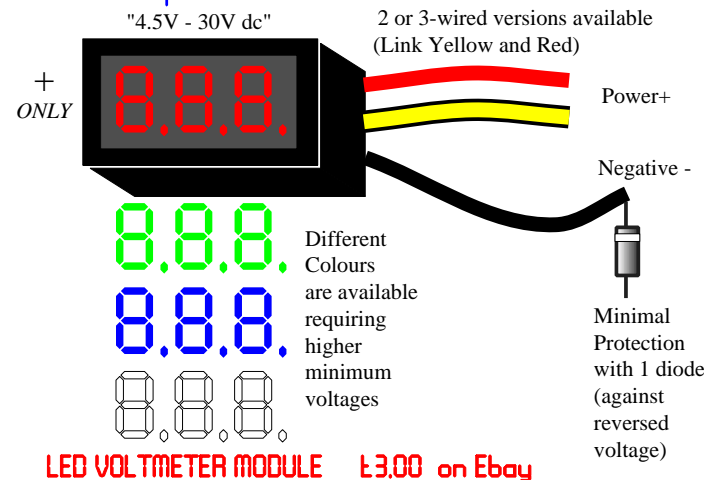
Whether analogue, battery, or digital - running can be disrupted by poor electrical contact or conductivity
This simple device eliminates the 'unknown' from the problem, and thus may help eliminate 'the problem' entirely.

The Off-the Shelf- Solution

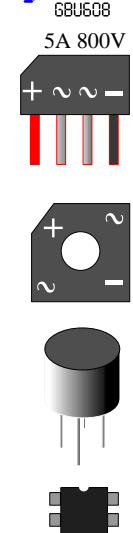


From just £5
Maplins stock a wide range

A Cheap 'home made' Solution

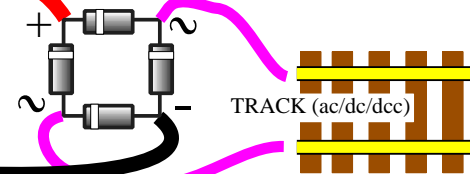


Bridge Rectifiers



Differing Designs and ratings -same function or from 4 single diodes

AC/DC?DCC VOLTAGE MEASUREMENT



Bridge Rectifier - (4 diodes connected as shown)

The displayed voltage will be about 1 Volt less than the track voltage