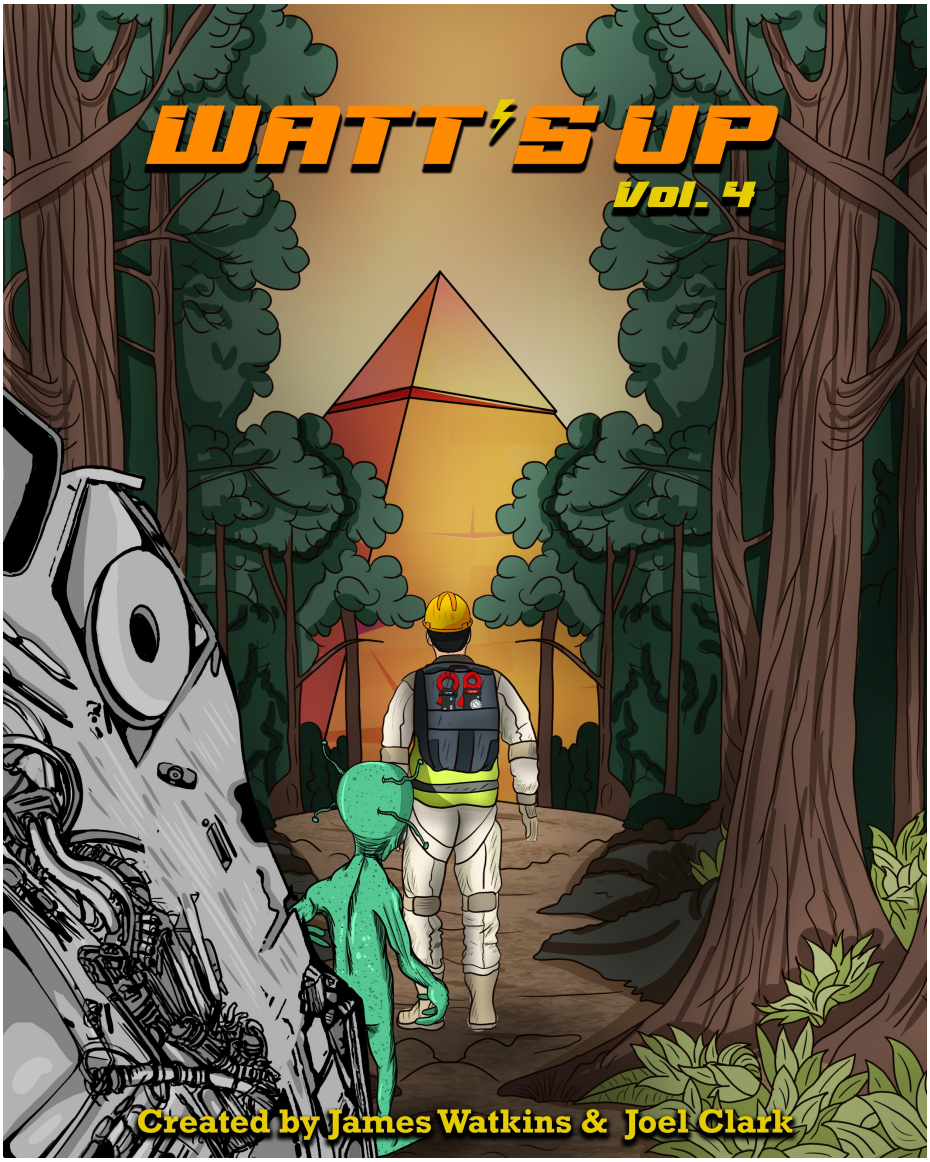


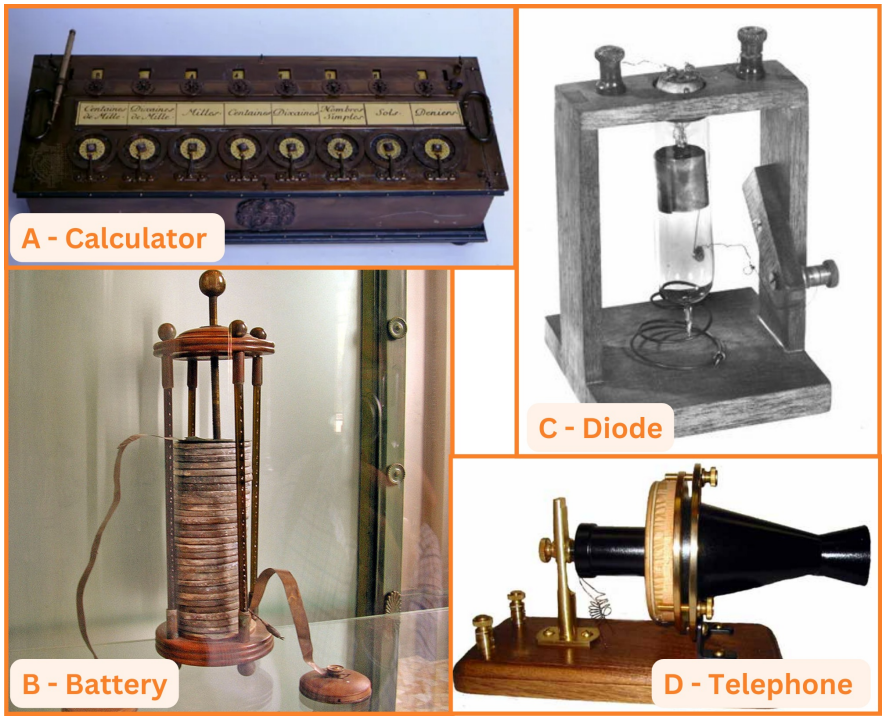
Last Month the board fault was a breeze to solve with the TIS testing kit, now on earth let's find a home...

WATT'S THE ANSWER

Every year new electrical innovation's are introduced to the world, but let's go back in time to when these ground breaking innovations were created.

Try to guess in what order these devices were founded.

Answer at the bottom



DID YOU KNOW?

Although it's overlooked the CPC is probably the most important conductor, so let's learn more...

1. Sizing Your CPC

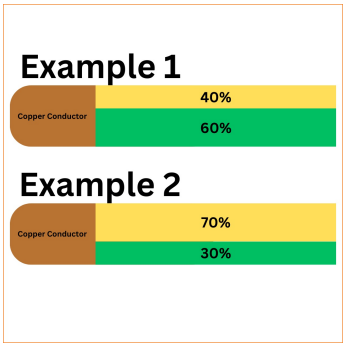
This is not used commonly in domestic installations, but if you do a lot of commercial work, this **Adiabatic equation** will help calculate the CSA of the CPC. When oversizing your CPC on a large commercial job, it can potentially lead to thousands of pounds wasted.

$$S = \frac{\sqrt{I^2 t}}{K}$$

Ref: BS7671, Page 199, 543.1.3

2. CPC Colour Identification

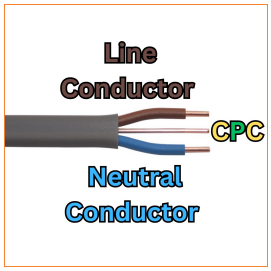
The green and yellow colour identification combination shall cover from a minimum of 30% and at most 70%. For example 40% yellow and 60% green. This regulation is commonly misconceived to what percentage you should sleeve a cable.



Ref: BS7671, Page 132, 514.4.2

3. Un-insulated CPC

The CPC is intentionally not insulated in T&E cable to make sure that if the cable is accidentally cut or drilled, there's a higher likelihood of encountering the CPC first. This is an important safety measure.



SPONSOR OF THE MONTH

TIS

TIS 560 AC & TIS 570 AC & DC Earth Leakage clamp meters.

Both instruments are massive **time savers** for board changes & finding AC leakage problems causing nuisance RCD tripping.

For the month of November, use promo code below for an extra **12.5% discount** off of the usual 'street price' for both products, taking them down to:

TIS 560 AC Leakage Clampmeter £105.00 +VAT
TIS 570 AC & DC Leakage Clampmeter £210 +VAT

Exclusive Discount Code: **JIMBOLEAKAGE**

Check it Out!

ASK ME ANYTHING?

Why is being able to detect DC leakage so important?

DC leakage is now increasingly prevalent due to Electric Vehicle batteries, Solar PV & battery storage systems. If more than 6mA of DC leakage flows in a circuit, then all AC, A & F type RCDs will be ‘blinded’ & therefore may not trip in a fault condition.

The installation of a ‘B’ type RCD or ‘RDC DD’ would then pick up the pure DC leakage current & therefore trip if there is more than 6mA of DC leakage.

The bigger picture with detecting DC leakage is also that it can propagate to different properties, meaning a house without any DC current generating equipment could be effected by a neighbour who has - therefore the detection of DC leakage is vitally important. At the time of writing this proposal, the TIS 570 is the only combined AC & DC leakage clampmeter currently readily available on the UK market.

DC leakage, if left unchecked can also cause corrosion within the fabric of metal &/or metal reinforced buildings.

Ref: TIS

Earth Leakage Clampmeter!

ACCOUNTS TO FOLLOW

If your someone like me who likes to watch electrical content for entertainment, education and to stay up to date check out the guys below.
These 3 accounts are a just few of the many creators I admire

David Savery

OY Electrical

OM Electrical

Knowledgeable and trustworthy guy that provide clear information without the bullshit

Instagram

YouTube

This guy has taken electrical YouTube content to the next level while providing great entertainment value

Instagram

YouTube

Growing his following very quick and its no surprise as his daily TikTok's are engaging and fun to watch

Instagram

TikTok

YOU'RE NEVER ALONE

The biggest part of being a tradesman is looking after your tools, van, staying on top of paper work... but the most important tool you own is your **MIND.**

We will be donating **10%** of any profit made from this newsletter. If you are feeling off, feel free to reach out for a chat.

Have a Chat!

WATT'S THE ANSWER

ANSWERS

A. 1642 = Calculator
B. 1800 = Battery
D. 1876 - Telephone
C. 1904 - Diode (C)

CONATCT US

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Link to contact us below

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WATT'S UP

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