

# Tapchanger Control Unit (TCU)

## Is your tapchanger limiting performance?

Many tapchanger drive mechanisms and associated Automatic Voltage Control (AVC) schemes on the UK network are non-operational and stuck on 'fixed tap' due to ageing or faulty components. This can lead to voltage constraints and reduced system efficiency.

## Introducing the TCU solution

Fundamentals has developed the Tapchanger Control Unit (TCU) to address issues caused by outdated or failed control equipment within tapchanger drive mechanisms.



Fundamentals TCU (Vertical Application)

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## TCU key features:

- Compatible with 230V and 415V motor voltages
- 110Vac control circuit (compliant with UK DNO specifications)
- Flexible mounting options: vertical or horizontal
- Pre-wired looms and socket connections
- User-friendly local control and isolation switches
- Blocking contactor and MCB shunt trip for AVC runaway prevention and lockout
- Tap duration and supply fail timers with configurable volt-free alarm contacts
- Electronic or mechanical tap counter options
- Tapchanger motor current monitoring functionality
- Complete design documentation: schematic, wiring diagram, and general arrangement pack
- Trialled and tested with UK DNOs

## TCU benefits:

- Unlock 'fixed tap' schemes
- Extend the lifetime of existing transformers
- Interface compatible with all types of tapchangers
- Fast installation kits designed to minimise transformer outage times
- Increased reliability and performance

## Our services include:

- Supply of complete TCU kits (including DSS assembly)
- Supply of separate DSS assemblies for ATL AT type, Fuller F, FBA, and HS type drive mechanisms
- Installation and commissioning of TCU / DSS assemblies, including integration with existing AVC schemes

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## Interested? Let's Talk

If any of the products or services listed are of interest, please contact us:

✉ [sales@fundamentalsltd.co.uk](mailto:sales@fundamentalsltd.co.uk)

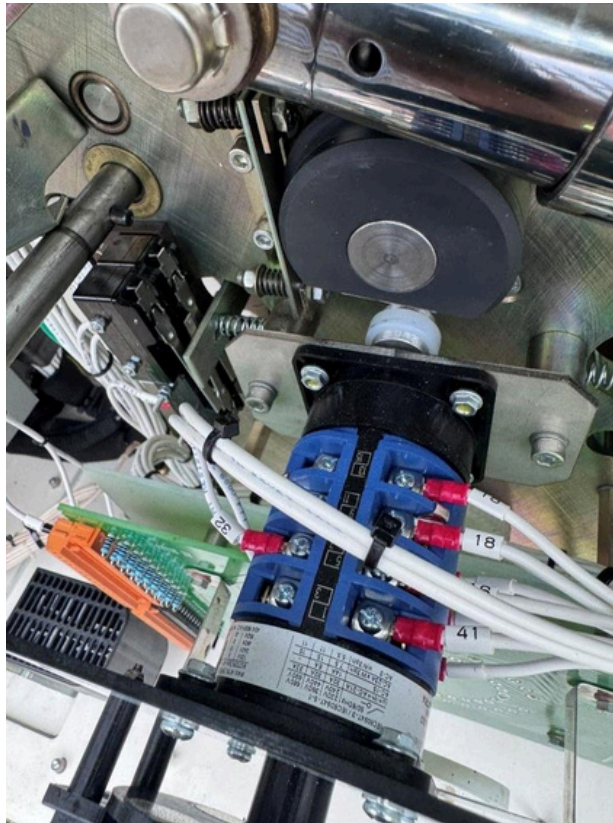
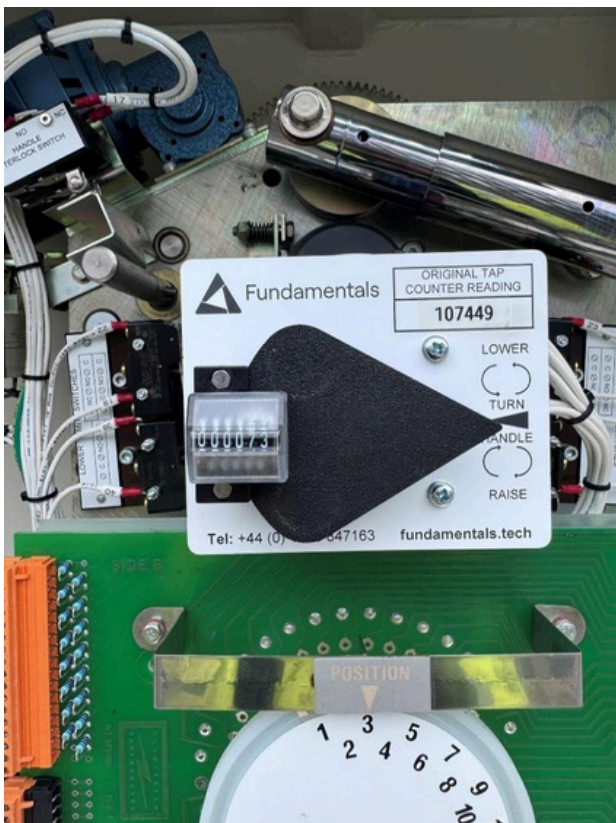
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Feel free to share this information with your Colleagues, Policy teams or Maintenance Managers who may benefit.





Fundamentals TCU (Horizontal Application)- Front and Rear

Fundamentals replacement DSS Assembly (for ATL AT type)-  
(Installation and Commissioning Completed by Fundamentals)