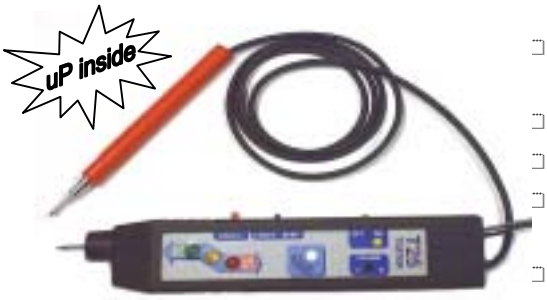
News

T25

Designed by
THOR Europe

PROFESSIONAL SHORT CIRCUIT LOCATOR



- *To localise short circuit between footprint, wire or cable previously learned manually or with ATE.*
- *Function to check the connection in wiring and cable*
- *Low energy forced to preserve electronic components*
- *Operation method based on measurement of electrical resistance variation.*
- *Optimised high sensitivity algorithm using microprocessor*

T25 localise the short circuit also in hard case:

- Between very large footprint
- Under the components
- Inside the hole on multilayer board
- Between wire of very long bus on board and mother board
- Between packed wiring on panels

T25 help you to eliminate expensive solutions

Manually or with automatic test systems is normal to found short circuit in production environment but not always easy is locate and eliminate it. Frequently occurs:

- Lose hours using magnifying lens
- Remove arbitrary components from the boards
- Remove wire and cabling in more points
- Use the drill to remove the metal hole in multilayer boards.
- …and, sometimes, when you have spent too much time without results the last solution is to destroy the board!

Easy to use: The sophisticated learning method allow an easy use and skilled people are not requested to bring near at short circuit. The operative indications are done with acoustic signals and LED fitted directly on the measure probe where are very easy to see.
Safe: The instrument is qualified for use on board with active components because low voltage and low impulsive current are present on the measure probes. In any case the device under test must be switched off.
High performance: The auto range system allow an high resolution with a large measurable resistance range but the best results are because the *microprocessor inside* is working with a special algorithm. These features are the ideal to operate in the hard cases such as power supply bus, with large wire, or data bus, with long net and with a lot of branch.
Self test: An internal circuit diagnostic is executed automatically at any system power on.
Functions: The user can switch two functions. The “SHORT circuit locator” function can be selected to locate the short circuit on wiring or the “BUZZER” function can be selected to check the electrical connection in wiring and cables.

SHORT CIRCUIT LOCATOR function

This is the function used to found the short circuit position.
The location procedure begin contacting with the probe two arbitrary point of the shorted wires and storing this position. The instrument will indicate if you are going near or far to the short circuit when, moving one probe a time, will checked more points following the wiring layout. The indication of stored, near and far point are both acoustic and visual.
The circuit under test must be switched off.

BUZZER function

This function is used to check the electrical connection in wiring and cables.
When the probes are touching a wire the instrument indicate the electrical connection with a beep and a visible indication on the leds. The indication is different for 3 range of contact resistance <50Ω, <20 Ω , <2Ω.
During the check the circuit under test must be switched off.

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TYPICAL APPLICATIONS

SHORT CIRCUIT LOCATOR function

- Printed circuits production
  (single/double layer, multilayer)
- Mounted boards repair
- Wired boards check and repair
- Cabled panels check and repair
- Laboratory

Boards

Wired boards

Mother boards

Cables

BUZZER function

- Manual cable assembly and/or check
- Manual check of mother boards cabled with wire wrap
- Cabled panels inspections
- Wired board inspections

Technical specifications

o	Resistance Range	1 mΩ ÷ >40Ω
o	Output voltage (with float probes)	<0.5V
o	Output current pulse (duty cycle <10%)	<100mA
o	Probe cable length	100cm
o	Instrument power supply voltage	12 Vcc
o	External power supply (included)	220Vac 12.5W
o	T25 instrument dimension	105x25x45 cm
o	Weight (without power supply)	< 70g

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