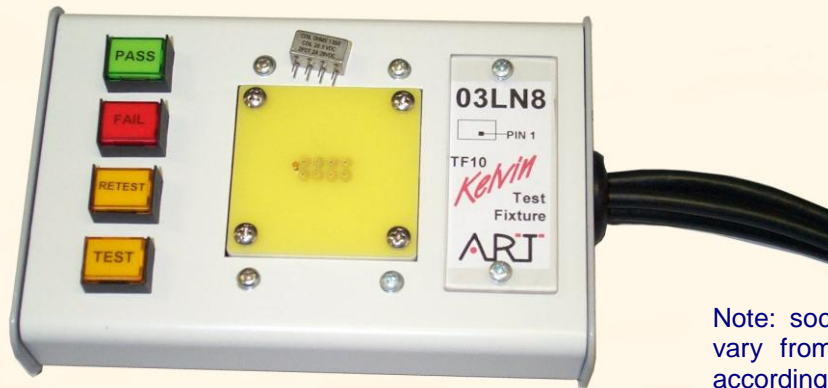


TF10 Kelvin Test Fixture



The TF10 provides a low cost four terminal Kelvin test fixture for high precision reliable connection to through hole devices. It is ideally suited for medium/low volume relay production test.



Note: socket footprint will vary from that illustrated according to customer requirement. Relay not included.

The low cost TF10 is available in kit or ready made form. The Kelvin socket footprint is manufactured according to customer specification at time of ordering. Local Pass/Fail indication and Test and Retest switches are provided for ease of use. The top and / or base can be reversed to swap between left and right handed operation. Non slip feet and an all metal construction provide an electrically screened and sturdy environment.

Key features

- Turn key solution for RT290 and Reflex users.
- Low cost kit version available.
- Kelvin connection (down to 0.1" pitch). Two socket sizes available according to device pin dimensions.
- Handles a wide range of through-hole mounted devices.
- Compact, all metal construction - excellent electrical screening characteristics.
- High quality switches and LED indicators for low maintenance.
- Reversible base for left or right hand cable entry.
- Reversible top allowing indicators and switches to be mounted on left or right hand side according to user preference.
- Device sockets made to customer specified footprint dimensions.

Standard items supplied:



Fixture check:

All ART parametric test equipment incorporates a fixture (socket) check which confirms the integrity of the Kelvin device connections. This ensures that the testing does not commence until the device is correctly inserted into the test fixture and that all connections are made.

The TF10 test fixture provides a turn-key solution to relay testing when used with any of ART's range of parametric test systems. A typical configuration is shown below:



Compatibility: TF10 is compatible with RT90, RT290, Reflex 20, Reflex 10 parametric test systems.

Signal quality: The earth bonded all-steel construction provides a high level of screening. Additionally all parametric signals are fully screened to optimise signal quality in electrically noisy environments.

Fully Kelvin device connections: All coil and contact connections are 4-terminal (Kelvin). Optional spring probe connection is available to connect to case of metal can devices.

Custom solution: Kelvin socket manufactured to meet device footprint requirement. Can be configured to test through-hole devices down to 0.1" pin spacing. Two Kelvin socket sizes available according to pin diameter. A sample device may be required at time of order.

Indicators and Switches: Two indicators are provided to show PASS / FAIL status. The TEST and RE-TEST switches are also illuminated to indicate system idle / busy status.

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Low Maintenance: High quality switches and sturdy all-steel construction ensure maximum durability. All indicators use LEDs for high MTBF. Rubber feet prevent damage to work surface and reduce slipping.

Interchangeable legends: A simple cover plate retains a legend which can be customised for example, to indicate device type and polarisation. The indicator and switch legends can also be changed for alternative languages or functionality.

Flexible cable entry: The cable entry grommet is designed to work over a large range of cable diameters. A single cable tie fixing inside the unit provides strain relief.

Device Connection: The unit is supplied with an ART standard device connector; either 1 off Hirose 60 way connector or 1 off set of D-type connectors. Alternative connectors may be supplied on request.

Ergonomic: Fully adjustable for left or right handed use. Please specify if non standard assembly is required.

Kit or ready made options: Kit version available for lowest cost. All components provided and wiring documented for easy assembly. Alternatively ART will assemble the unit for a nominal charge.

TF10 Specifications

Dimensions: 155mm (W) x 106mm (D) x 47mm (H)
(6.1" x 4.2" x 1.9") approx.

Max. device footprint area: 35mm x 35mm (1.4" x 1.4")

Max. pin dia.: 1mm (0.04")

Min pin spacing: 2.54mm (0.1")

Weight: 1 kg (2lb) (excluding connector)

Finish: Powder coat.

Colour: BS4800 00A01 (light grey)
BS4800 00A05 (mid grey)

NOTE ART manufacture a wide range of pneumatically and manual operated test fixtures. Please contact ART for more information or visit our web site (details below).