

TF100 Pneumatic Kelvin Test Fixture



The TF100 provides a pneumatically actuated Kelvin connection to custom manufactured device adaptors either with ART's wide range of precision parametric test equipment or with third party measurement hardware.



Note: TF100 as supplied shown below (protective shutter removed). TF101 adaptor inserts provide interface to DUT. An example of TF100 plus typical TF101 insert is shown at left. Relay not included.



The TF100 handles a wide variety of through-hole mounted device footprints. A rugged design ensures high mechanical reliability and low maintenance operation. Interchangeable adaptor modules provide rapid DUT reconfiguration for minimum down-time. Local 'PASS' and 'FAIL' indication plus a local 'TEST' switch are provided for basic user operation.

Key features:

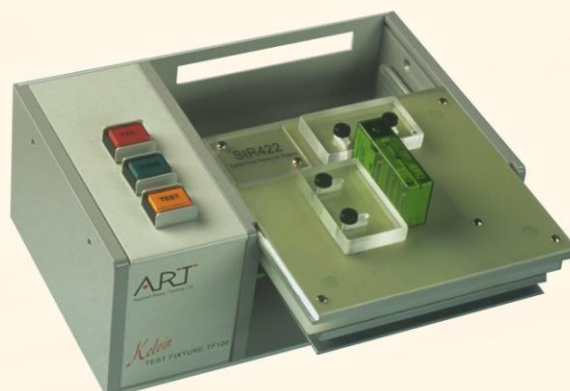
- Turn key solution for RT290 and Reflex users.
- Kelvin connection (down to 0.1" pitch).
- Handles a wide range of through-hole mounted devices.
- Compact, all metal construction - excellent electrical screening characteristics.
- Fast adaptor interchangeability.
- Pneumatic operation for zero magnetic interaction with the device under test.
- Device sockets made to customer specified footprint dimensions.
- Local 'TEST' switch plus 'PASS' and 'FAIL' indicators.
- Non slip feet with tilt action.
- Supplied with cabling and full documentation.
- Low maintenance.

Fixture check:

All ART parametric test equipment incorporate 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

Quick and easy adaptor removal:

A modular device adaptor construction allows removal and re-connection in a matter of seconds.



Bench mounting kit: An optional bench-top mounting kit is also available, see below:



Custom solution: The Kelvin adaptor inserts are custom manufactured to meet individual footprint requirements.

Compatibility: TF100 is compatible with RT90, RT290, Reflex 20, Reflex 10 parametric test systems. Note that a 24 volt supply is required for use with third party test equipment.

Fully Kelvin device connections: All coil and contact connections are 4-terminal (Kelvin).

Pneumatic operation: A simple low maintenance pneumatic connection provides mechanical actuation without introducing the possible magnetic influence associated with solenoid operated fixtures. A single push fit 4mm air line fitting is provided along with two speed adjusters to provide control over operate and release actuation time.

Device Alignment: Each adaptor is supplied with adjustable guide block to ease DUT insertion.

Adaptor cables: ART can supply adaptor cables which allow devices with identical footprints but different pin mapping to be used with a single insert.

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Low Maintenance: High quality switches and sturdy all-steel construction ensure maximum durability. Rubber feet prevent damage to work surface and reduce slipping.

Interchangeable legends: The indicator and switch legends can also be changed for alternative languages.

Simple device interfacing: Device connection is made using industry standard D-type connectors. A high density 62 way and standard density 15 way connector provide a safety interlock plus connection to a maximum of 37 device pins.

Easy maintenance: All Kelvin connections are used using a simple hex screw fixing allowing quick and easy removal should a pin need replacing.

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

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

TF100 Specifications

Power requirement: 24 Volt (DC) 120mA.

Max. device footprint area: 40mm x 56mm (1.6" x 2.2")

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

Max. pin length (standard build) : 9mm (0.35")

Min pin spacing: 2.54mm (0.1")

Dimensions: 245mm (W) x 165mm (D) x 112mm (H) (9.7" x 6.5" x 4.4") approx.

Weight: 3.5 kg (8.5lb) (including DUT adaptor)

Finish: Powder coat.

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

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