JBC

www.jbctools.com

INSTRUCTION MANUAL

TCP

Thermocouple Pointer

This manual corresponds to the following reference:

- **TCP-A**

Packing List

The following items are included:

Box includes:

Metal Box .... 1 unit

Anchor .... 1 unit
Ref. 0036001
Comes with M4 x 10 mm screw DIN 7991

Thermocouple Pointer .... 1 unit

**Thermocouple Extension Wire
for TCP** .... 1 unit
Ref. 0036000
Length: 50 cm
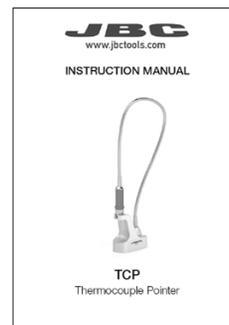
Manual .... 1 unit
Ref. 0035848

Features

TCP Thermocouple Pointer is designed to monitor the surface temperature of the PCB or its components with high precision positioning. It works on any type of material and can measure temperatures up to 300 °C / 572 °C with an accuracy of ±10 °C / 50 °F. Its design allows for quick and accurate placement on high-density printed circuit boards, reducing setup time, even at high temperatures.

TCP features a K-type signal output. The monitoring device to which it is connected must have a K-type compatible connector. For compatibility information with JBC devices, visit the product's page at www.jbctools.com. For more information on compatibility with external devices, contact JBC Technical Support.

The sensor is completely isolated (electrically) from the outer parts of the product.
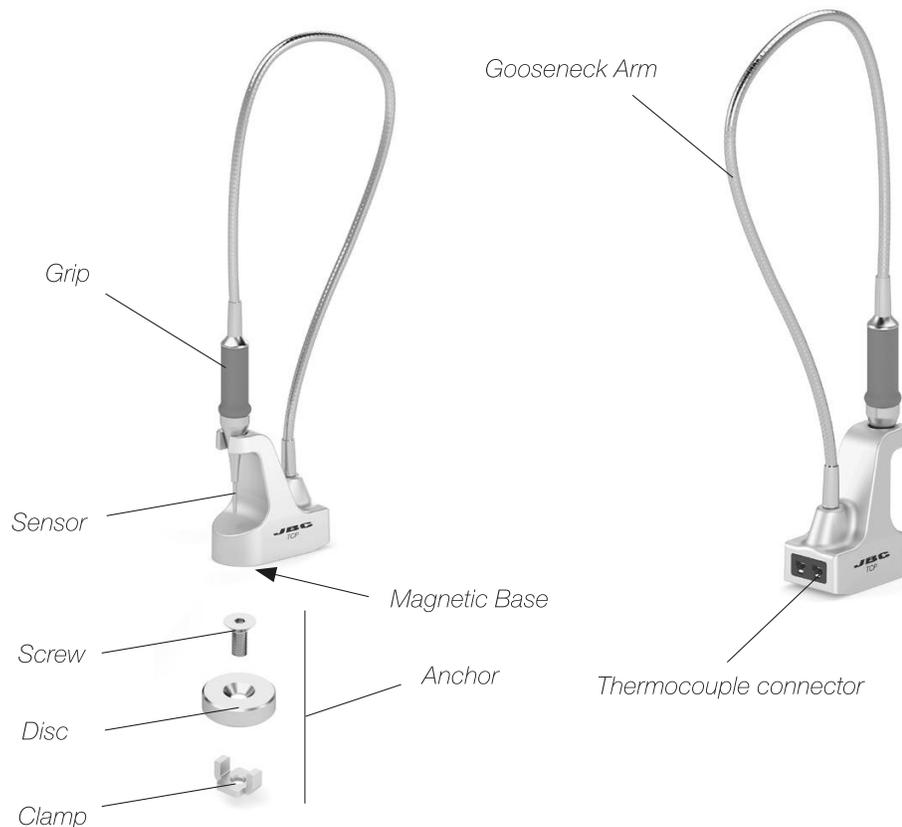
TCP is ESD safe with no extra connections, as long as it sits on any kind of ESD safe surface, e.g. JBC ESD safe table mats, a ground-wired metal surface, etc.

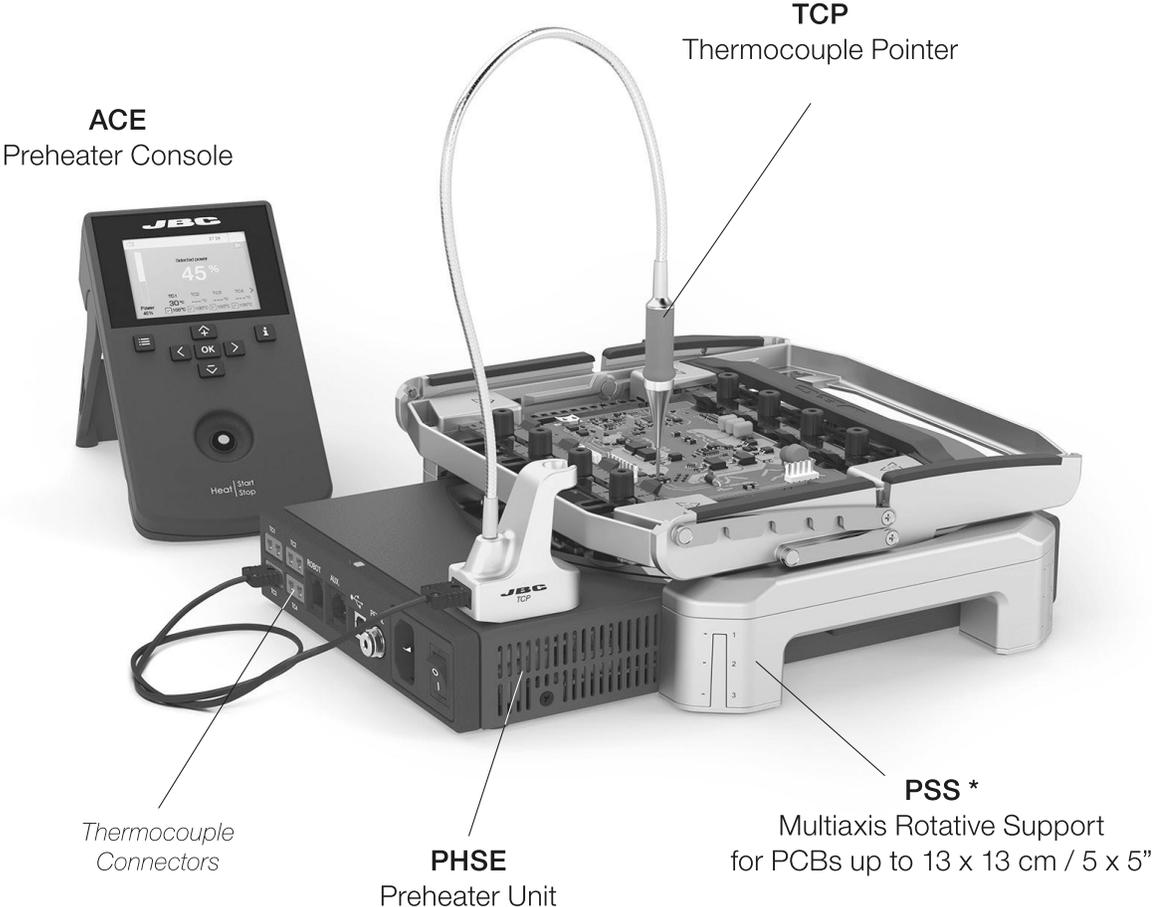It is also possible to ground the product from any of its metal surfaces.

> ⚠ TCP is not intended for use in fluids such as flux or molten tin, nor is it designed for measurement of hot air.
>
> When connecting TCP to a monitoring device (K-type compatible connector required), always use the thermocouple extension wire supplied with this product.

Gooseneck Arm

Grip

Sensor

Magnetic Base

Screw

Anchor

Disc

Thermocouple connector

Clamp

Workplace Example

TCP
Thermocouple Pointer

ACE
Preheater Console

*Thermocouple
Connectors*

PHSE
Preheater Unit

PSS *
Multiaxis Rotative Support
for PCBs up to 13 x 13 cm / 5 x 5"

** TCP also works with other JBC preheater supports and preheater sets.*

How To Use

1. Connect the thermocouple pointer to a monitoring device (K-type compatible connector required) using the supplied thermocouple extension wire.

2. Thanks to its magnetic base, TCP can be placed and stabilized onto magnetic surfaces. If there is no magnetic surface available, see the "Anchor Assembly" section.

⚠ Avoid placing the base of TCP in direct contact with a heat source.

3. Take the pointer from its base and place it completely vertical on the exact spot you want to measure.

90°

⚠ The temperature measurement can be affected by air currents. Keep this in mind when using hot air tools (JTT or NH) or fume extractors (FAE1, FAE2).
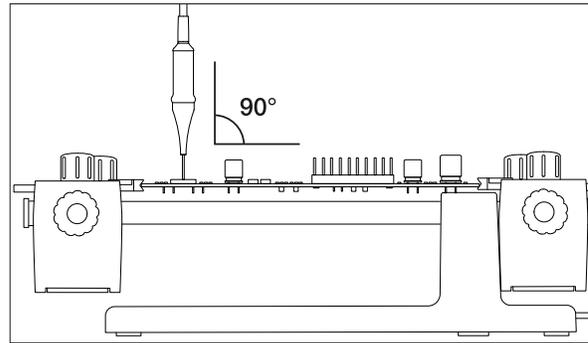
Anchor Assembly

If there is no magnetic surface available to place the base onto, the supplied anchor (magnetic) can be placed on a JBC support, allowing TCP to be fixed onto it. After its use, the base can be more easily separated from the anchor/magnetic surface by tilting it apart.

To assemble the magnetic anchor onto the guides of the support:

1. Unscrew the anchor using a 2.5 Allen key (DIN911).

2. Fit the clamp of the anchor into one of the guides on the support from below (1).

3. Position the disc on the guide, aligning its center with that of the lower piece.

4. Fix the anchor by screwing the two pieces together from the top (2).

5. Place the base of the thermocouple pointer on the anchor.
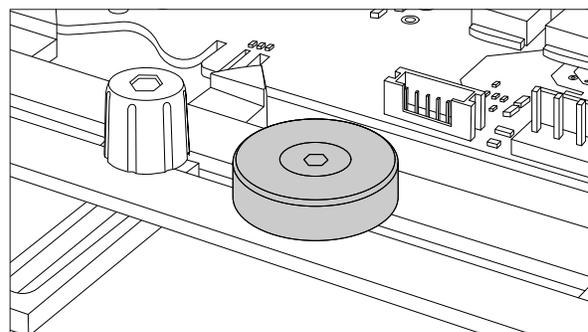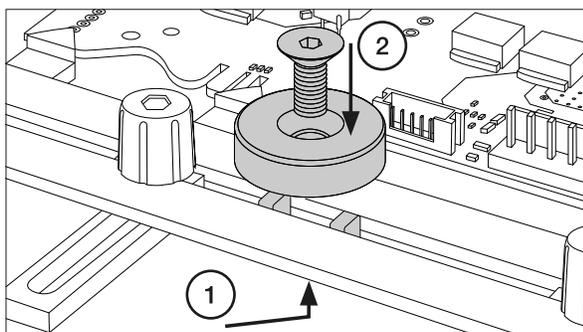
Maintenance

- Before carrying out maintenance or storage, always allow the equipment to cool down.

- Check periodically that the sensor is clean.

- Use a damp cloth when cleaning. Alcohol can only be used to clean the metal parts.

- Replace any defective or damaged parts. Use original JBC spare parts only.

- Repairs should only be performed by a JBC authorized technical service.

Notes

Specifications

TCP
Thermocouple Pointer
Ref.: **TCP-A**

- Output:	Type K
- Measurable Temperature Range:	25-300 °C / 77-572 °F
- Total Net Weight:	430 g / 0.95 lb
- Package Dimensions / Weight:	280 x 280 x 164 mm / 730 g
(L x W x H)	11.02 x 11.02 x 6.46 in / 1.61 lb

Complies with CE standards.
ESD safe.

JBC

Warranty

This product should not be thrown in the garbage.
In accordance with the European directive 2012/19/EU, electronic equipment at the end of its life must be collected and returned to an authorized recycling facility.

CE EAC

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