



## tpi SP341 K-Type Temperature Smart Probe User Manual

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## Introduction

1. **Congratulations:** Thank you for purchasing TPI products. The SP341 is easy to use and built to last. It is backed by a 3 year limited warranty.
2. **Product Description:** The SP341 is a K-Type thermocouple thermometer “Smart Probe”. It connects to your mobile device and uses the TPI Smart Probe App or TPI View App to display temperature readings. Data can be displayed, saved, logged, allocated to a specific job, exported & e-mailed in either pdf or csv depending on which app the SP341 is connected to.
3. Download either the SmartProbe or the View app from either the Apple App Store or the Google Play Store

### Smart Probes App



### View App



## SAFETY CONSIDERATIONS

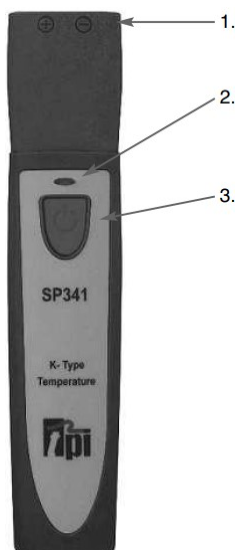
1. Never attach the SP341 to a hot surface.
2. Always make sure the temperature probe used has the proper range for the application.
3. Always use K-Type thermocouples only.
4. Do not expose the unit to damp environments for extended periods of time.

## SPECIFICATIONS

SP341 Smart Probe K-Type Thermometer Specifications	
Input Type	K-Type thermocouple with sub-mini connector
Measurement Range	-581 to 24621 (-50t to 1350t)
Accuracy	t3.2°F (-58°F to 32°F) ±1.6°C (-50°C to 0°C) 40.3% of reading, + 2°F (32°F to 1000°F) 40.3% of reading, + 1°C (0°C to 600 °C) 40.4% of reading, + 2°F (>1000°F) t(0.4% of reading, + 1°C) (>600°C) Capable of +1-1°F within 30°F to 120°F range when auto field calibration is performed.
Resolution	0.1°F / 0.1°C
Operating Temperature	-4°F to 122°F (-20°C to 50°C)
Communication	Bluetooth version 4.2 (Use with TPI Smart Probe App)
Battery Type	AAA x 3
Battery Life	75 hours typical

## INSTRUMENT OVERVIEW

1. Input connection for K-Type probes. Connector is recessed and polarized (marked + and -). Ensure the K-Type probe is connected properly (see below).
2. SP341 status LED indicator. Orange and blinking = Bluetooth not connected Green and blinking = Bluetooth connected Blinking Red with either of the above = Low battery
3. Power Key. Press and hold to turn the instrument on. Press and hold to turn the instrument off.



4. Built-in magnet. Attach to metal surfaces for hands free operation. Ensure surface is not hot.
5. Serial number location. Last three digits are the product identification number and marked in bold. Use this number to distinguish between models when several SP341's are connected to a phone or tablet.
6. Screw to open battery compartment. Turn the screw counter clockwise until it is just above the compartment door. Lift on the screw to open the compartment.



**K**– Type probe connectors are polarized and made so one prong is wider than the other. This ensures connection with the proper polarity is made. They are marked + and – just like the SP341 connector.



## MAINTENANCE

1. Clean the surface of the instrument with a damp cloth.
2. Replace the three AAA batteries when the low battery indicator appears.

## TROUBLE SHOOTING

Symptom	Probable Cause
Temperature seems inaccurate.	<ul style="list-style-type: none"> <li>• Check thermocouple probe for incorrect wiring or open connection.</li> <li>• Low battery.</li> <li>• Non K-Type probe being used.</li> <li>• Ensure connection with phone is working.</li> </ul>
SP341 does not turn on.	<ul style="list-style-type: none"> <li>• Dead or low batteries.</li> <li>• Not holding down power switch until unit turns on.</li> <li>• Defective POWER ON switch.</li> </ul>
SP341 displays “OPEN”	<ul style="list-style-type: none"> <li>• No probe connected.</li> <li>• Temperature probe is bad</li> </ul>
SP341 measures temperature backwards.	<ul style="list-style-type: none"> <li>• Thermocouple probe wired backwards</li> <li>• Probe connected with reverse polarity.</li> </ul>

## ACCESSORIES

### Included Accessories

Part Number	Description
A341SP	Soft pouch
GK41M	General purpose temperature probe

### Optional Accessories

Part Number	Description
A925	Carrying case for 4 smart probes
A927	Carrying case for SP341 & temperature probes

Test Products International offers a variety of K-Type thermocouple probes for many applications. Visit [www.tpieurope.com](http://www.tpieurope.com) for additional information.

## WARRANTY

This product is warranted to the purchaser against defects in material and workmanship for three years from the

date of purchase.

**Covered by Warranty:** Repair parts and labor; or replacement of the product at company's option. Normal transportation charges to the purchaser are also covered.

**Not Covered by Warranty:** Damages to the product which are the result of abuse, improper use or maintenance are not covered. Any other expense, consequential damages, incidental damages, or incidental expenses including damages to property are not covered. Transportation expenses to the company are not covered.

**To Obtain Warranty Performance:** Include with the product: your name, address, phone number, written description of the problem and proof of purchase date. Carefully package and return to:

TPI, Inc	TPI Canada	TPI, Europe Ltd..
9615 SW Allen Blvd	342 Bronte rd. S., Unit 6	Longley house, International drivee
Beaverton, Or 97005	Milton, Ontario L9T 5B7	Southgate Crawley
USA	Canada	West Sussex rh10 6AQ England
503-520-9197	905-693-8558	44(0) 1293 530196
<a href="http://www.testproductsintl.com">www.testproductsintl.com</a>	<a href="http://www.tpicanada.com">www.tpicanada.com</a>	<a href="http://www.tpieurope.com">www.tpieurope.com</a>

**Implied Warranties:** Any implied warranties including implied warranties of merchantability and fitness for a particular purpose, are limited in duration to three years from date of purchase. To the extent any provision of this warranty is prohibited by federal or state law and cannot be preempted, it shall not be applicable. This warranty gives you specific legal rights, and you may also have other rights which vary from country to country.

## REPLACING BATTERIES

1. Turn the battery compartment screw counter clockwise until it is just above the compartment door. Lift on the screw to open the compartment.



2. Replace the three AAA batteries.



3. Re-install the battery cover and tighten the screw by turning it clockwise.

**Test Products International, Inc.**

9615 SW Allen Blvd., Ste. 104 Beaverton, OR 97005

**Tel:** 503-520-9197

[www.testproductsintl.com](http://www.testproductsintl.com)

**Test Products International, Ltd.**

342 Bronte Road South, Unit #6 Milton Ontario Canada L9T 5B7

**Tel:** 905-693-8558

[www.tpicanada.com](http://www.tpicanada.com)

**Test Products International Europe Ltd.**

Longley House, International Drive Southgate, Crawley, West Sussex RH10 6AQ

**Tel::** +44 (0) 1293 530196

[www.tpieurope.com](http://www.tpieurope.com)

**Uses any K-Type probe with sub-mini connector**

**Connects to smart phone and uses the TPI Smart Probe App or the TPI View app.**


**Perform differential temperature measurements with one instrument**

**Up to 6 SP341 smart probes can connect to a single mobile device (most devices)**




**Auto field calibrate to  $\pm 1^{\circ}\text{C}$  system accuracy in the range of  $-1^{\circ}\text{C}$  to  $49^{\circ}\text{C}$  using field calibrate mode**

**3 Year Limited Warranty**



 <p><b>SP341 K-Type Temperature Smart Probe</b> Test Products International, Inc.</p> <p>Use any K-Type probe with automatic connector.</p> <p>Connects to smart phones and uses the TPI Smart Probe App or the TPI Smart App.</p> <p>Probes deliver real-time temperature measurements with one button.</p> <p>Up to 2000 user profiles can be stored in a single module (not shown).</p> <p>Auto Mode (off) is on by default. Measures in the range of -1°C to 49°C using Auto calibration mode.</p> <p>3 Year Limited Warranty</p> <p>Use standard K-type thermocouple probes with auto mini input plug. QW341 or probe included. Other probes sold separately.</p> <p><b>Test the TPI Advantage</b> Visit <a href="http://www.tpiusa.com">www.tpiusa.com</a></p>	<p><a href="#">tpi SP341 K-Type Temperature Smart Probe</a> [pdf] User Manual</p> <p>SP341, SP341 K-Type Temperature Smart Probe, SP341 Temperature Smart Probe, K-Type Temperature Smart Probe, Temperature Smart Probe, Temperature Probe, Smart Probe, Probe</p>
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References

-  [Test Products International - USA](#)
-  [TPI Canada](#)
-  [TPI Europe](#)

[Manuals+](#).