



tpi SP341 Sub-mini K-Type Thermometer Smart Probe User Manual

[Home](#) » [TPI](#) » tpi SP341 Sub-mini K-Type Thermometer Smart Probe User Manual 

Contents

- 1 tpi SP341 Sub-mini K-Type Thermometer Smart Probe
- 2 Product Information
- 3 Product Usage Instructions
- 4 INTROdUCTION
- 5 SAFETY CONSIDERATIONS
- 6 SPECIFICATIONS
- 7 INSTRUMENT OVERVIEW
- 8 MAINTENANCE
- 9 TROUBLESHOOTING
- 10 ACCESSORIES
- 11 WARRANTY
- 12 REPLACING BATTERIES
- 13 Documents / Resources
 - 13.1 References
- 14 Related Posts



tpi SP341 Sub-mini K-Type Thermometer Smart Probe



Product Information

SP341 K-Type Temperature Smart Probe

The SP341 is a K-Type thermocouple thermometer Smart Probe that connects to your mobile device and uses the FREE TPI View App to display temperature readings. It can perform differential temperature measurements with one instrument and comes with a GK41M air probe. Other probes can be bought separately.

Product Usage Instructions

- **Step 1: Download the App**

Download either the SmartProbe or the View app from either the Apple App Store or the Google Play Store.

- **Step 2: Connect the Probe**

Connect the K-Type probe with the sub-mini connector to the input connection on the SP341. Ensure that the connector is recessed and polarized (marked + and -).

- **Step 3: Turn on the Instrument**

Press and hold the power key to turn on the instrument. The SP341 status LED indicator will blink orange if Bluetooth is not connected, and green if Bluetooth is connected. If the battery is low, the LED indicator will blink red.

- **Step 4: Use the App**

Open the TPI View app on your mobile device to display temperature readings. Data can be displayed, saved, logged, allocated to a specific job, exported & e-mailed in either pdf or csv.

Safety Considerations:

- Never attach the SP341 to a hot surface.
- Always make sure the temperature probe used has the proper range for the application.
- Always use K-Type thermocouples only.

- Do not expose the unit to damp environments for extended periods of time.

Specifications:

The SP341 has been tested with the following standards and is in compliance with the council RED directive 2014/53/EU:

- EN 62479:2010
- EN 61326-1:2013
- EN 61010-1:2010
- ETSI EN 301 489-17 V3.1.1 (2017-02)
- ETSI EN 301 489-1 V2.1.1 (2017-02)
- ETSI EN 300 328 V2.2.0 (2017-11)

Warranty:

The SP341 comes with a 3 Year Limited Warranty.

Maintenance:

Do not expose the unit to damp environments for extended periods of time. If necessary, clean the unit with a dry cloth.

Troubleshooting:

If the SP341 status LED indicator blinks red, replace the batteries using the instructions provided in the user manual.

Accessories:

Other probes can be bought separately from Test Products International, Inc.

Replacing Batteries:

Replace the batteries using the instructions provided in the user manual.

Test Products International, Inc.

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

Connects to smartphone and uses the FREE TPI View app.



Perform differential temperature measurements with one instrument

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

3 Year Limited Warranty

- Use standard K-type thermocouple probes with a sub-mini input plug.
- GK41M air probe included.
- Other probes are sold separately.

The SP341 has been tested with the following standards and is in compliance with the council RED directive 2014/53/EU:



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 FREE 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.
3. Download either the SmartProbe or the View app from either the Apple App Store or the Google Play Store



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	-58°F to 2462°F (-50°C to 1350°C)
Accuracy	$\pm 3.2^{\circ}\text{F}$ (-58°F to 32°F) $\pm 1.6^{\circ}\text{C}$ (-50°C to 0°C) $\pm(0.3\%$ of reading, $+ 2^{\circ}\text{F}$) (32°F to 1000°F) $\pm(0.3\%$ of reading, $+ 1^{\circ}\text{C}$) (0°C to 600 °C) $\pm(0.4\%$ of reading, $+ 2^{\circ}\text{F}$) (>1000°F) $\pm(0.4\%$ of reading, $+ 1^{\circ}\text{C}$) (>600°C) Capable of $\pm 1^{\circ}\text{F}$ 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

The SP341 has been tested with the following standards and is in compliance with the council RED directive 2014/53/EU: –

- EN 62479:2010
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- ETSI EN 301 489-1 V2.1.1 (2017-02)
- ETSI EN 300 328 V2.2.0 (2017-11)

The relevant certificate can be viewed, downloaded, and printed from the TPI website at the following address:
<https://www.tpieurope.com/wp-content/uploads/2019/11/SP341-Certificate-of-Conformity.pdf>.

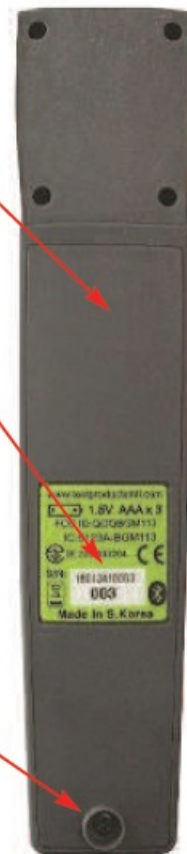
INSTRUMENT OVERVIEW

1. Input connection for K-Type probes. The 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. The last three digits are the product identification number and are 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 the battery compartment. Turn the screw counterclockwise until it is just above the compartment door. Lift on the screw to open the compartment.



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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.

TROUBLESHOOTING

Temperature seems inaccurate:

- Check the thermocouple probe for incorrect wiring or open connection.
- Low battery.
- The non-K-Type probe is being used.
- Ensure the connection with the phone is working.

SP341 does not turn on:

- Dead or low batteries.
- Not holding down the power switch until the unit turns on.
- Defective POWER ON switch.

SP341 displays “OPEN”:

- No probe connected.
- The temperature probe is bad.

SP341 measures temperature backward:

- Thermocouple probe wired backward.
- Probe connected with reverse polarity.

ACCESSORIES

Included Accessories

- **A341SP**
 - Soft pouch
- **GK41M**
 - General purpose temperature probe

Optional Accessories

- **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.tpieuropa.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 the 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.

9615 SW Allen Blvd. Beaverton, OR 97005 USA

503-520-9197

www.testproductsintl.com

TPI Canada

342 Bronte Rd. S., Unit 6 Milton, Ontario L9T 5B7 Canada

905-693-8558

www.tpicanada.com

TPI, Europe Ltd..

Longley House, International Drive Southgate Crawley

West Sussex RH10 6AQ England 44(0) 1293 530196

www.tpieuropa.com.

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 counterclockwise until it is just above the compartment door. Lift on the

screw to open the compartment.

2. Replace the three AAA batteries.

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



Replace the three AAA batteries.



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

Thank You!

& Welcome to the TPI Family

We really appreciate you coming onboard, if you aren't already, and look forward to serving you over the next few years, and beyond. For the best experience head over to www.tpieurope.com, create your account and register your product.

Benefits include:

- Everything in one place
- Create service, calibration and warranty/repair requests
- Download certificates
- Contact sales, support and customer service
- Read correspondence from TPI including Service updates
- Manage your order history
- Shop Online for accompanying products and spares delivered direct to your door


Please do not hesitate to contact us by any of the following methods:

- **Tel:** 01293 530196
- **E-mail:** sales@tpieurope.com or service@tpieurope.com
- **Website:** www.tpieurope.com inc. LIVE CHAT
- **Facebook:** @tpieurope
- **Twitter:** @TPIEuropeLTD

Test Products International Europe Ltd.

Longley House, International Drive
Southgate, Crawley, West Sussex RH10 6AQ
Tel:: +44 (0) 1293 530196

Documents / Resources

 <p>SP341 K-Type Temperature Smart Probe</p> <p>Test Products International, LLC</p> <p>Use any K-Type probe with standard connector</p> <p>Connect to smart phone and view the FREE TPI TrueView</p> <p>Features differential temperature measurements with one measurement</p> <p>Auto field calibrate to 0°C system accuracy to the range of -1°C to 40°C using Best Calibration Method</p> <p>3 Year Limited Warranty</p> <p>Use standard K-Type Thermocouple probes with sub-mini input plug. DIN130 air probe included. Other probes sold separately.</p> <p>Test the TPI Advantage</p> <p>Visit www.tpieurope.com</p>	<p>tpi SP341 Sub-mini K-Type Thermometer Smart Probe [pdf] User Manual</p> <p>SP341, SP341 Sub-mini K-Type Thermometer Smart Probe, SP341 Thermometer Smart Probe, Sub-mini K-Type Thermometer Smart Probe, Thermometer Smart Probe, Thermometer Probe, Smart Probe, Probe</p>
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References

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