



SP620 Differential Manometer Smart Probe

Test Products International, Inc.



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

Perform differential pressure measurements

Up to 6 SP620 smart probes can connect to a single mobile device (most devices)

Timed UK Let/By - Tightness Test function (View App ONLY)

UK Working Pressure Test (View App ONLY)

3 Year Limited Warranty

Test the TPI Advantage

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TABLE OF CONTENTS

A. Introduction.....	1
B. Safety Considerations.....	1
C. Specifications.....	2
D. Instrument Overview.....	3
E. Maintenance.....	4
F. Trouble Shooting.....	4
G. Accessories.....	4
H. Warranty.....	5
I. Replacing Batteries.....	5

A. INTRODUCTION

1. Congratulations: Thank you for purchasing TPI products. The SP620 is easy to use and built to last. It is backed by a 3 year limited warranty.
2. Product Description: The SP620 is a Differential Manometer Pressure “Smart Probe”. It connects to your mobile device and uses the TPI Smart Probe App or TPI View App to display differential pressure 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 SP620 is connected to.
3. Download either the SmartProbe or the View app from either the Apple App Store or the Google Play Store

SmartProbes App




View App



B. SAFETY CONSIDERATIONS

1. Never attach the SP620 to a hot surface.
2. Always ensure the pressure being measured does not exceed the capability of the SP620.
3. Never use the SP620 to measure liquid pressure.
4. Do not expose the unit to damp environments for extended periods of time.

C. SPECIFICATIONS

SP620 Smart Probe Differential Pressure Meter Specifications	
Input Type	Dual input differential
Connection Type	1/4 inch barb
Measurement Range	-150 mbar to 150mbar (-60 inH2O to 60 inH2O)
Accuracy	+/-0.05 mbar (0 to 1 mbar) / +/- (1.5% + 20 digits) (> 1 mbar) +/-0.02 inH2O (0 to 1 inH2O) / +/- (1.5% + 20 digits) (> 1 inH2O)
Resolution	0.01 mbar / 0.01 inH2O
Units of Measure	7 Units (mbar, inH2O, kPa, PSI, mmHg, inHg, mmH2O)
Operating Temperature	-20°C to 50°C (-4°F to 122°F)
Communication	Bluetooth version 4.2 (Use with TPI Smart Probe App) FCC ID: QOQBGM113 IC: 5123A-BGM113  209-J00204
Battery Type	AAA x 3
Battery Life	80 hours typical

D. INSTRUMENT OVERVIEW



1. Input connection for pressure measurements. Inputs are marked + and -.
2. SP620 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 SP620'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.



The inputs are marked + and -. Any pressure connected to the - port will be subtracted from the + port.

For standard pressure / vacuum measurements use the + port only. Use the + and - port when performing differential measurements.

E. MAINTENANCE

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

F. TROUBLE SHOOTING

Symptom

Probable Cause

Pressure seems inaccurate.

- Check tubing for kinks or cuts.
- Low battery.
- Ensure connection with smart device is working.

SP620 does not turn on.

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

SP620 displays “OL”.

- Pressure limit exceeded.

G. ACCESSORIES

Included Accessories

Part Number	Description
A620SP	Soft pouch

Optional Accessories

Part Number	Description
A925	Carrying case for 4 smart probes
A930	Carrying case for 1 or 2 smart probes

H. 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:

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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.

I. 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.

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