



SP620 Differential Manometer Smart Probe

Test Products International, Inc.



Connects to smart phone and uses the
FREE TPI View App



Perform differential pressure
measurements

Timed UK Let/By - Tightness Test
function

UK Working Pressure Test

3 Year Limited Warranty

Test the TPI Advantage

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The SP620 has been tested with the following standards and is in compliance with the council RED directive 2014/53/EU: -



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



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

The SP620 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)

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/SP620-Certificate-of-Conformity.pdf>

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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www.tpieurope.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.

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.



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

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