



P/Temp Sensor: TPST-1600KPA-PT100.BOX

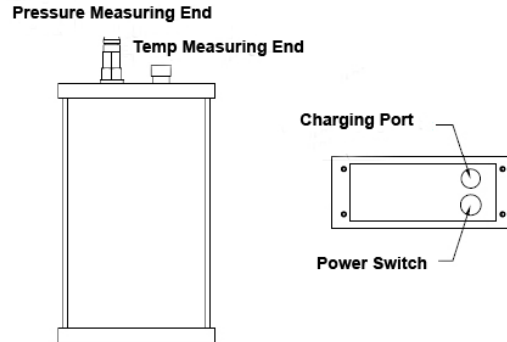
Hydraulic Balancing Debugging Instrument

TPS is a debugging instrument for measuring and documenting of differential pressure, flow, temperature and power consumption in hydronic systems. It connects to the handset APP software via bluetooth which could debug faster and more economical.

TPST-P/Temp Sensor Technical Parameters

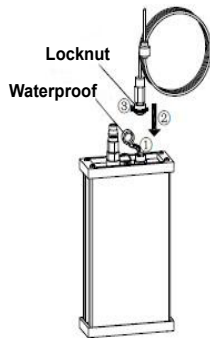
Pressure Measurement Range	0~1600kPa
Medium Temperature	-25~150°C
Temperature Sensor	PT100
Battery Capacity	3000mA
Operating Time	>20 h
Charge Time	6 h
Protection Level	IP64
Ambient Temperature	Operating and Charging Status: 0~40°C Storage Status: -20~60°C (Do not leave water in the sensor when there is a risk of freezing)
Ambient Humidity	Max. 90%RH
Charger	Output Voltage: 12.6V DC Output Current: 500mA
Applicable System	Android
Dimension	L*W*H=470*355*150mm

P/Temp Sensor Panel



- Pressure measuring end: Connect the measuring hose to pressure measuring end of P/Temp sensor.
- Temperature measuring end: Connect the measuring hose to temperature measuring end of P/Temp sensor.
- Charging port: Charge up the DP sensor
- Power switch: Self- return button power switch, press to power on the sensor and the power indicator light is lit. Press again to power off the sensor and the power indicator light is off.

Operation Instruction

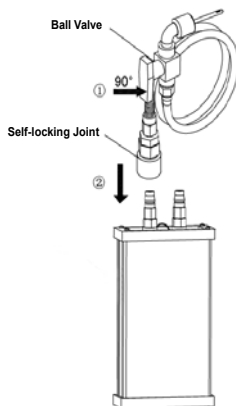


Instruction for Temperature Measuring:

1. Inset the PT100 temperature measuring end into testing end of static balancing valve, screw out the waterproof endcap of temperature measuring end for P/Temp sensor and connect to the testing end of the valve then screw up the locknut .
2. Press the power switch of P/Temp sensor and the power indicator light is lit.
3. Open the APP software ,click(connect)to the Bluetooth module.
4. Observe the display data on handheld unit and record the data.
5. Shut off the power switch of P/Temp sensor, the power indicator light is off.
6. Unscrew the locknut, take down the PT100 temperature sensor and screw up the waterproof endcap.

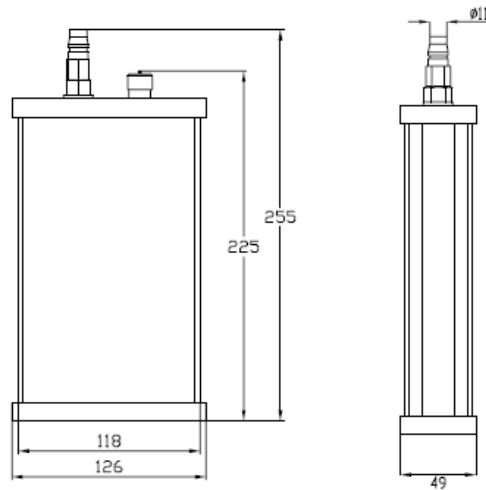
Instruction for Pressure Measuring:

1. Please rotate the ball valve 90 degrees. Now the ball valve switch is perpendicular to the measuring hose and the valve is closed.
2. Insert the measuring needle into testing point of static balancing valve, self-locking joint align to the testing point of P/Temp and press it .
3. Press the power switch of DP sensor, the power indicator light is lit.
4. Open the APP software, click (connect) to connect the Bluetooth module.
5. Observe the display data on handheld unit, click (calibrate) to zero.
6. Rotate the ball valve to parallel to the measuring hose. (Open)
7. Input relevant parameters in formula bar.
8. Click data storage to record the value after debugging.
9. Rotate the ball valve to perpendicular to the measuring hose and close the ball valve.
10. Shut off the power switch of DP sensor, the power indicator light is off.
11. Disconnect the self-locking joint and pull out the measuring needle from testing point of static balancing valve.



Notice: when test high pressure, high temperature liquid medium, please put on heat-resistant gloves and any other necessary protectors to ensure the security of the testing process.

P/Temp Sensor Dimension



Interface Introduction



① Status Bar: the battery status is on the left. Time is in the middle. On the right, it shows the connecting status of device, Bluetooth connection status and device battery status. When the connection works, this icon will flicker.

② Title Bar: the software title is in the middle, right is setting button. Its functions include equipment search, help, update and so on.

Search: search for Bluetooth devices, paired and so on.

Help: provide operating instructions.

Update: interconnection state, update software if there is a new version.

About: check the version number of the program.

③ Display Bar: show current status of pressure and temperature, connection status.

④ Formula Bar: input basic testing parameters, including equipment number, remark info. and so on.

⑤ Operation Bar: include calibrate, connect, data storage, view records and generate reports.

Calibrate: calibrate the zero drift of the instrument.

Connect: connect to the default paired device.

Data Storage: store the current measuring value.

View records: view the current records in the database.

Generate reports: generate xls spreadsheet and store in the SD card.

⑥ Menu Bar: include measure, data, settings and about.

Measure: turn to measuring interface.

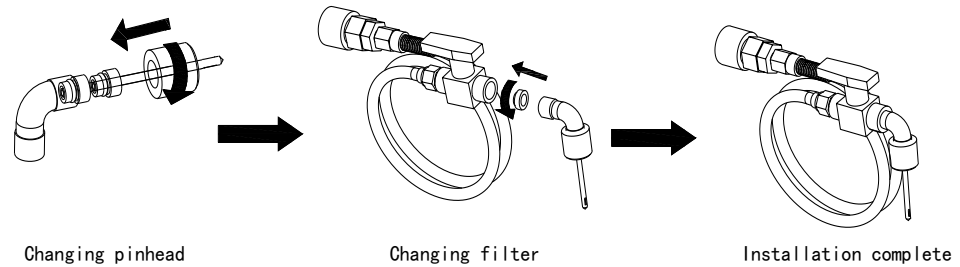
Data: view xls spreadsheet management.

Settings: set the normal operation information, such as project name, company selection and so on.

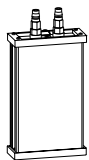
Contents

TPST-1600KPA-PT100.BOX Contents			
Item	QTY	Item	QTY
P/Temp Sensor TPST-1600KPA-PT100	1	Charger for P/Temp Sensor	1
Handheld Unit(Charger included)	1	Awl	1
Measuring hose with needle100mm, Red	1	Case	1
Standby filter	1	Operation instruction	1
Standby needle	1	/	

Parts Installation Instruction



Accessories



P/Temp Sensor (TPST)

Mainly used for measuring pressure and temperature, handheld unit can connect to the DP sensor by Bluetooth function.

Specifications

P (0~1600kPa) 、Temp PT100

Article No

TPTS-1600KPA-PT100

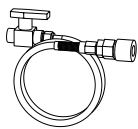


Handheld Unit

With charger

Article No

TMOBILE-1



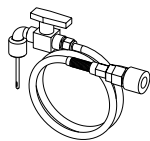
Measuring hose

With shutoff valve

Length[mm]

Article No

100	Red	TPS-001-R
100	Blue	TPS-001-B



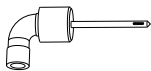
Measuring hose with needle, angle

With shutoff valve and measuring needle

Length [mm]

Article No

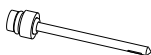
100	Red	TPS-002-R
100	Blue	TPS-002-B



Measuring needle, angle

Article No

TPS-003



Pinhead

Article No

TPS-004

Accessories(cont.)



Filter

Measuring hose parts

Article No

TPS-005



Allen wrench

Specifications

Article No

3mm

TPS-006-3

5mm

TPS-006-5

8mm

TPS-006-8



Awl

Article No

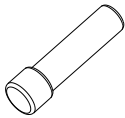
TPS-007



Utility knife

Article No

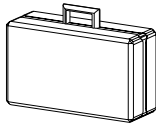
TPS-008



Flashlight

Article No

TPS-009



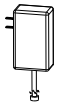
Case

Dimension

Article No

470*355*150mm

TPS-010



Charger

For DP sensor and P/Temp sensor

Article No

TPS-011



Neck strap

Article No

TPS-012