



OWNER'S MANUAL

PROSMART



TEAMBMPRO.COM



BM PRO

POWERING YOUR ADVENTURES

With over 50 years' experience in power solutions combined with manufacturing and design facilities in Melbourne, Australia, BM PRO are the leading experts in RV power and control management.

Inspired by the great outdoors, we have created a range of rugged, smart and reliable products to power your adventures.

Our range of battery, power and RV management and control systems gives you peace of mind when you are on the road, so that you can relax in even the most far flung destinations, knowing you have control over your power needs.

To learn more about the BM PRO range of products, please visit our website **teambmpro.com**



SAFETY PRECAUTIONS

Please read the Safety Precautions before installing or using ProSmart. Be sure to observe all precautions without fail. Failure to observe these instructions properly may result in personal damage, or personal injury which depending on the circumstances may be serious and cause loss of life.



Only install the **SmartSense** gas cylinder/propane gas sensor as described in this manual. No field assembly is required. The sync process to the app on your smart display, as described below, should occur in an area clearly out of any explosive atmosphere.



Once **SmartSense** is synced to your smart display, the device is “in service” and operating normally. Device will then operate continually until battery is otherwise removed or changed. There is no “Power Off” mode from that point forward. Once in service, the device may then be moved, repositioned, or removed from the tank as needed, without any special instruction or changes to the device.



SmartSense is not intended for repair or maintenance, other than changing the battery per subsequent sections of this manual. Any modification of the SmartSense may result in an unsafe condition.



SmartSense should be removed from tank and opened for battery change, clearly away from any explosive atmosphere.



Do not use **SmartSense** for any other application, other environment, or in any other manner than as stated in this manual. Any misuse may result in an unsafe condition.



The operational temperature for the **SmartSense** ranges from 1°C to 32°C (33°F to 90°F).

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MANUAL PART **036052**
REV 1.0


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Designed by BMPRO, one of Australia's leading power solution experts, the BMPRO product range is proudly designed and manufactured in Melbourne, Australia, and represent a high-quality product that will provide years of service.

DISCLAIMER: BMPRO accepts no liability for any loss or damage which may occur from the improper or unsafe use of its products. Warranty is only valid if the unit has not been modified or misused by the customer.

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ABOUT PROSMART

ProSmart is a system that allows you to easily monitor water levels, gas levels, tyre pressure, temperatures and battery charge while on your adventures, all from an easy-to-use app on your smartphone.

Included in your ProSmart package is SmartLink, a powered node that you can easily install and pair to your phone, which allows you to view both your wired and wireless sensors through a Bluetooth connection.

Along with SmartLink, you can connect your battery to the ProSmart system using the included battery cable.

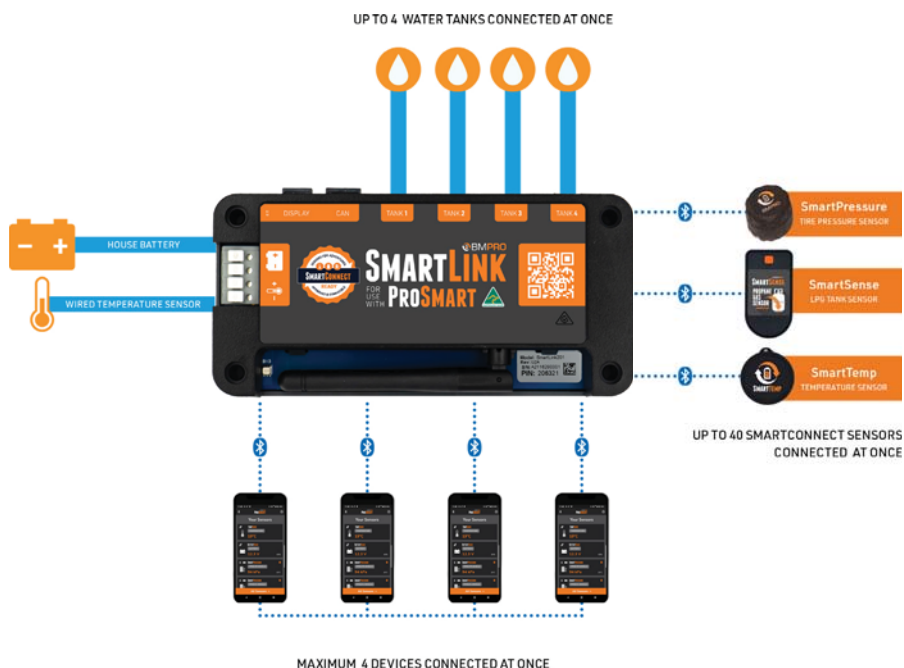
The ProSmart can be used anywhere where you have a 12V power source - such as your RV, truck, boat or 4WD!

Up to 40 SmartConnect Bluetooth sensors can be paired to the SmartLink and displayed in the official BMPRO ProSmart App, giving you a wealth of information at your fingertips.

Several SmartConnect Bluetooth sensors are included in your package, as well as a wired temperature sensor designed to connect directly to your SmartLink.

The free ProSmart App is available on both the Apple App Store and Google Play Store.

PROSMART SYSTEM DIAGRAM



DESCRIPTION OF PARTS

SMARTLINK



1. DIP SWITCH

Used to configure the ports on the SmartLink. Leave in the “ON” position.

2. DISPLAY PORT (UNUSED)

3. CAN BUS PORT (UNUSED)

4. WATER TANK SENSOR CONNECTIONS

Used to connect BMPRO water sensors.

5. HELP VIDEO QR CODE

Scan the QR code to view information about ProSmart, including FAQs and the manual at teambmp.com

6. SERIAL NUMBER

Contains the passkey pin required when pairing the SmartLink to the ProSmart App.

7. ANTENNA

Used to receive signals from SmartConnect devices and transmit to your smart devices.

The antennca can be swivelled for increased signal performance.

8. PAIRING LED

LED indicator which shows status when pairing or unpairing.

STATE	LED STATUS
Initialisation	Flashing white and yellow
Pairing	Flashing blue
The maximum of four devices has been reached	Flashing amber-green
All devices have been forgotten	Flashes red once

9. PAIRING BUTTON

Used to pair and unpair devices from SmartLink. If the button is held for 10 seconds, all paired devices will be forgotten by the SmartLink.

NOTE: SmartConnect devices are not forgotten when holding down the pairing button. They must be unpaired using the ProSmart App.

10. WIRED TEMPERATURE SENSOR CONNECTIONS

Used to connect the included BMPRO wired temperature sensor.

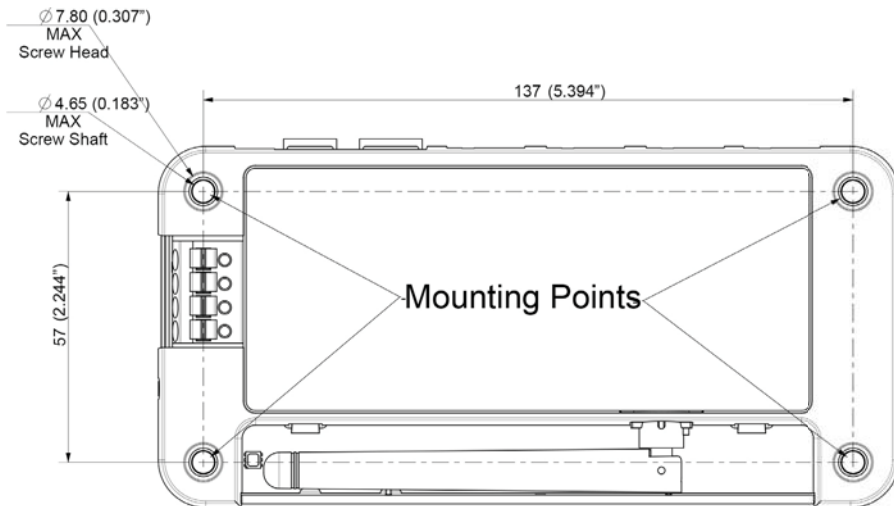
11. 12V INPUT CONNECTION

Used to connect a 12V power source to the SmartLink.

MOUNTING THE SMARTLINK

The SmartLink is designed to be mounted to the wall directly with screws. A hole for the connectors must be drilled before mounting.

To maximise antenna performance and to avoid signal degradation, care should be taken to not place the SmartLink near conductive or metal objects.



Once the SmartLink has been mounted to the wall, connect all the connections.

THE PROSMART APP

Download the ProSmart App and enjoy the freedom to monitor your sensors around your RV remotely.

COMPATIBLE DEVICES

The ProSmart App is compatible with iOS 13 or later and Android 8 or later.

Search for ProSmart in the Apple App Store or Google Play.

Apple App
Store QR
Code

Google
Play QR
Code



USING THE PROSMART APP FOR THE FIRST TIME

When opening the ProSmart App for the first time, you will be greeted with the Welcome screen.

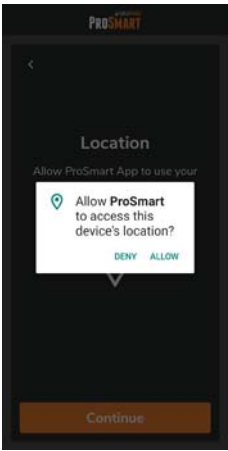
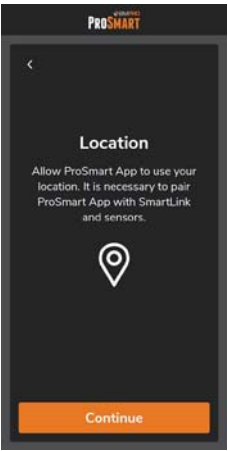


Press **Start** to begin using the app.

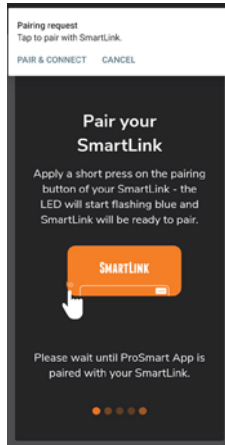
Your SmartLink will need to be configured to work with the ProSmart App. In the Prepare your SmartLink screen, press **Continue**.



If you are using an Android phone, the ProSmart App requires access to your smartphone's location services in order to work with your SmartConnect sensors.



The ProSmart App is now ready to pair with SmartLink. Once the Pair your SmartLink screen displays, press the pairing button on the SmartLink.



The LED on the SmartLink will begin flashing blue. The SmartLink will now be available for pairing for 60 seconds.

If a notification appears requesting pairing, press **Pair & Connect**.

In the pop-up that appears, type your 6-digit passkey pin. This is located on the SmartLink itself.

The ProSmart App will now be connected to the SmartLink.

HOME SCREEN

Once connected to the SmartLink, the ProSmart App will display the Home screen.



The Home screen will display all sensors connected to your SmartLink.

Wired sensors connected to the SmartLink will appear with a wired icon. 

Connected batteries will display the battery voltage and its current state of charge.

WARNING

The battery state of charge in the ProSmart app is a voltage-based estimation and will vary under load, temperature and different battery manufacturers and should only be used as a guide.

SmartConnect sensors will display a Bluetooth icon  and a battery icon. 

The battery icon shows the current level of the sensor battery.

If a sensor battery needs to be replaced, follow the instructions in the **Battery Replacement** section.

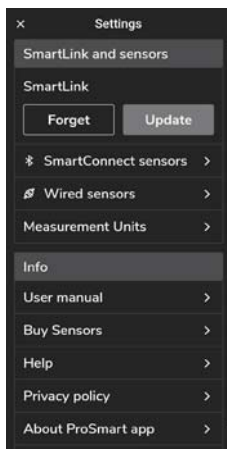
Filtering Sensors

You can filter the displayed sensors by pressing **All Sensors**. Here you can choose to display a single type of sensor on the Home screen.



SETTINGS

Press the Settings button  from the Home screen to access the app settings.

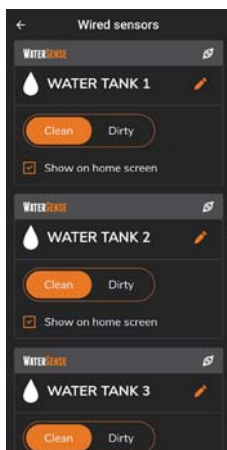


Use Settings to:

-  **Update** your SmartLink
-  Add **SmartConnect** sensors
-  Configure **wired** sensors
-  Change your **measurement units** for temperature, air pressure and gas
-  Access the ProSmart **user manual**
-  Go to the store page to **buy** more SmartConnect sensors
-  View **help**
-  View BMPRO's **privacy policy**
-  View information **about the ProSmart App**

Wired Sensors

Up to 4 connected water tanks, 1 wired temperature sensor and a battery can be configured in the Wired Sensors screen.



Water tanks can be set as Clean or Dirty.

Battery chemistry can be set as Lead Acid or LiFePo4 (Lithium).

All wired sensors can be toggled to display on the Home screen by ticking or unticking the **Show on home screen** checkbox.

Each sensor can be renamed by pressing the edit icon. 

SmartConnect sensors

SmartPressure, SmartSense and SmartTemp sensors can be paired to the ProSmart App.

For more information on how to install and pair SmartConnect sensors, refer to the relevant section in this manual.

Measurement Units

Measurement units throughout the app for temperature, air pressure and gas can be changed.

Temperature can be toggled between °C and °F.

Air pressure can be toggled between kPa and PSI.

Gas can be toggled between kg and lbs.

The SmartPressure Tyre Pressure Monitoring System (TPMS) allows the monitoring of your tyre pressure through ProSmart.

The SmartPressure sensor will transmit every 10 minutes when your RV is stationary and every minute when in motion.

The SmartPressure sensor will transmit at a faster rate if a leak in the tyre is detected. In this situation:

- ☑ Wait for the sensor to send the information
- ☑ Check if the sensor is installed correctly
- ☑ Check the sensor's battery level.



SmartPressure Sensor

INSTALLING SMARTPRESSURE SENSORS

SmartPressure sensors can be installed by following the below instructions:

1. Install the anti-theft nut.
2. Tighten the sensor.



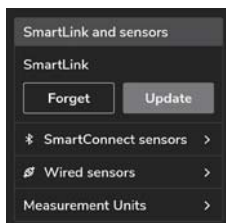
3. Screw the anti-tamper ring anti-clockwise to lock the sensor.
4. Use a wrench to tighten the anti-theft nut.



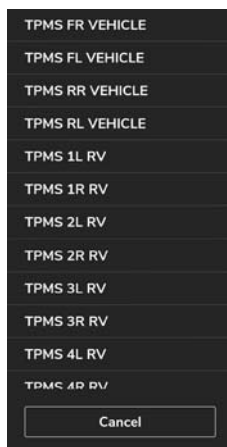
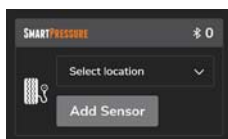
PAIRING SMARTPRESSURE SENSORS

To pair SmartPressure sensors:

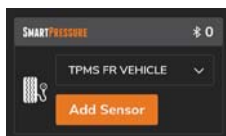
1. Press the Settings button. 
2. In the Settings screen, press **SmartConnect sensors**.



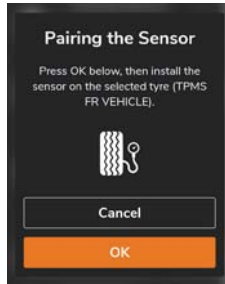
3. Underneath SmartPressure, from the drop-down, choose the location of the SmartPressure sensor you want to pair.



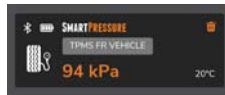
4. Press **Add Sensor**.



5. A pop-up will appear with pairing instructions.
6. Press **OK**.

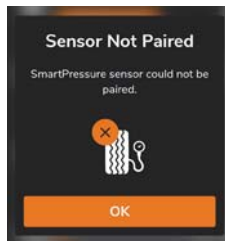


7. Install the pressure sensor on the same selected tyre. Refer to the section **Installing SmartPressure Sensors**.
8. Once pairing is successful, the sensor, tyre pressure and tyre temperature will appear on the Home screen.



SMARTPRESSURE PAIRING UNSUCCESSFUL

If pairing was unsuccessful, a message will appear stating "Sensor Not Paired".



Press **OK** to attempt pairing again.

Refer to the **BATTERY REPLACEMENT** section to check the battery level of the sensor and for instructions on battery replacement.

PRESSURE SIGNAL NOT DETECTED

If a valid pressure signal is not detected, the pressure will show as 0.

In this situation:

-  Wait for the sensor to send the information
-  Check if the sensor is installed on the tyre
-  Check the sensor battery level

UNPAIRING SMARTPRESSURE SENSORS

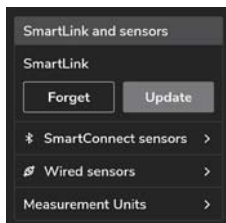
To unpair SmartPressure sensors:

1. Go to the **Your Sensors** page.
2. On the SmartPressure sensor you want to unpair, press the bin icon. 

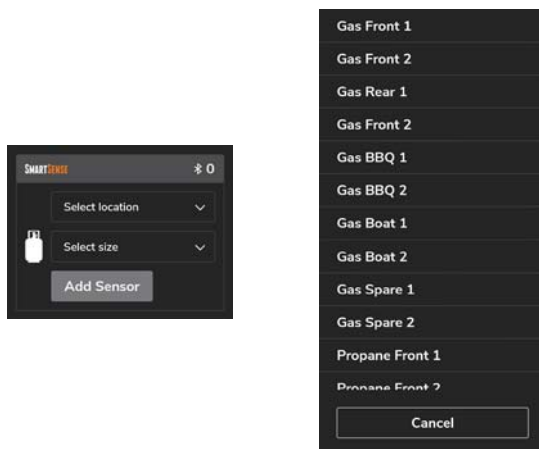
PAIRING SMARTSENSE SENSORS

To pair SmartSense sensors:

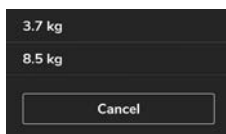
1. Press the Settings button. 
2. In the Settings screen, press **SmartConnect sensors**.



3. Underneath SmartSense, from the drop-down, choose the location of the SmartSense sensor you want to pair.



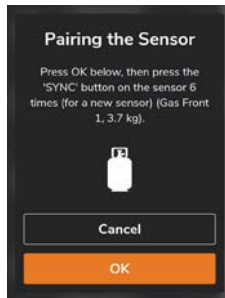
4. Select the bottle size of the gas tank.



5. Press **Add Sensor**.



6. A pop-up will appear with pairing instructions.
7. Press **OK**.



8. If this is the first time this sensor has been synced, press the orange sync button on the SmartSense sensor 6 times. This permanently disables Sleep Mode, which is the factory setting. After the first use, only a single press is required to sync the device.
9. Once pairing is successful, the sensor, level of gas and battery level of the sensor will appear on the Home screen.

SmartSense on
home screen

SMARTSENSE PAIRING UNSUCCESSFUL

If pairing is unsuccessful, a message will appear stating "Sensor Not Paired".



Press **OK** to attempt pairing again.

If the SmartSense sensor continues to fail to pair:

- ☐ Move the propane tank and sensor closer to the SmartLink.
- ☐ Check the sensor battery level.

Refer to the **BATTERY REPLACEMENT** section to check the battery level of the sensor and for instructions on battery replacement.

SENSOR READING NOT DETECTED

If a valid reading is not detected, the gas reading will show as 0.

In this situation:

- ☐ Quickly press the orange sync button on the sensor 6 times to wake it
- ☐ Wait for the sensor to send the information
- ☐ Check the sensor battery level
- ☐ Move the propane tank and sensor closer to your SmartLink.

UNPAIRING SMARTSENSE SENSORS

To unpair SmartSense sensors:

1. Go to the **Your Sensors** page.
2. On the SmartSense sensor you want to unpair, press the bin icon. 



SMARTTEMP

The SmartTemp Bluetooth temperature sensors allow you to monitor temperatures throughout your RV using ProSmart.

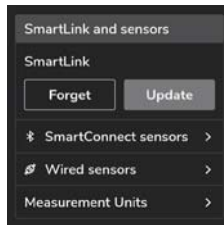
PAIRING SMARTTEMP SENSORS

To pair SmartTemp sensors:

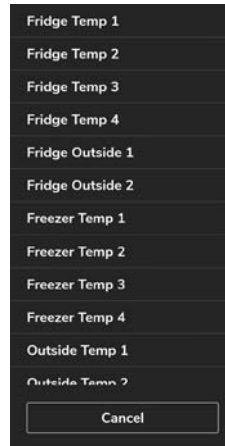
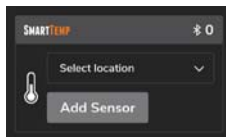
1. Press the Settings button. 
2. In the Settings screen, press **SmartConnect sensors**.



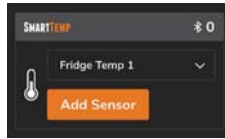
SmartTemp Sensor



3. Underneath SmartTemp, from the drop-down, choose the location of the SmartTemp sensor you want to pair.



4. Press **Add Sensor**.



5. A pop-up will appear with pairing instructions.
6. Press **OK**.

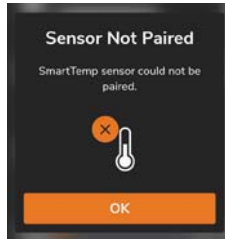


7. Turn on the **SmartTemp** sensor by pressing and hold the sensor power button until the light turns green.
8. Once pairing is successful, the sensor, temperature and humidity level will appear on the Home screen.



SMARTTEMP PAIRING UNSUCCESSFUL

If pairing is unsuccessful, a message will appear stating "Sensor Not Paired".



Press **OK** to attempt pairing again.

Refer to the **BATTERY REPLACEMENT** section to check the battery level of the sensor and for instructions on battery replacement.

UNPAIRING SMARTTEMP SENSORS

To unpair SmartTemp sensors:

1. Go to the **Your Sensors** page.
2. On the SmartTemp sensor you want to unpair, press the bin icon. 

BATTERY REPLACEMENT

The monitoring system displays battery level information to help you know when you need to change the batteries of your SmartConnect devices.

To check if any SmartConnect sensor batteries need to be changed, check the battery icon on the sensor in the home screen. The icon will indicate if the battery is low or not.

If the battery is low, it will need to be replaced.

REPLACING SMARTPRESSURE SENSOR BATTERIES

SmartPressure sensor batteries can be replaced by following the below instructions:

1. Remove the sensor.
2. Loosen the sensor housing with a wrench.



3. Open the outer case of the sensor.
4. Replace the battery.

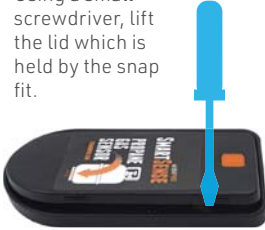


If you are replacing multiple SmartPressure batteries at once, take care not to mix them up to avoid installing the wrong sensor.

REPLACING SMARTSENSE SENSOR BATTERIES

SmartSense sensor batteries can be replaced by following the below instructions:

Using a small screwdriver, lift the lid which is held by the snap fit.



Carefully lift the board with the electronics. Replace the CR2032 battery.



Place the lid back into base and press down fully to re-engage all 4 snap fits.



Replacing SmartSense Sensor Batteries

REPLACING SMARTTEMP SENSOR BATTERIES

SmartTemp sensor batteries can be replaced by following the below instructions:

Using a small screwdriver, lift the lid from the recess side.



Carefully lift the board with the electronics. Replace the CR2477 battery.



Align the groove in the PCB with two pieces of plastic.



Align the button on the PCB with the button on the base of sensor. Press the base down until it is locked.



Replacing SmartTemp Sensor Batteries

SERVICING

Do not attempt to service the SmartLink yourself, OR dismantle, modify or repair the SmartLink yourself; this will void your warranty. If your SmartLink requires servicing, please consult your BMPRO dealer or visit **teambmp.com** for assistance.

FAQS AND TROUBLESHOOTING

Need more help troubleshooting your ProSmart?

Refer to our website for more information at **teambmp.com/technical-support**

How many devices can I pair to the SmartLink?

Up to four devices can be paired to the SmartLink at once.

How do I unpair all connected devices from the SmartLink?

To unpair all connected devices, press and hold the pairing button on the SmartLink for at least 10 seconds. The LED will flash red, once the flashing is over all devices will be unpaired.

How many SmartConnect sensors can I have paired to the SmartLink?

Up to 40 SmartConnect sensors can be paired to the SmartLink at once.

SPECIFICATIONS

SmartLink	
Input Voltage Range	8V to 16V
Battery Drain	< 20mA
Ambient Temperature	-20°C to 60°C (-4°F to 140°F)
Dimensions (mm)	156 x 76 x 23

Wired temperature Sensor	
Temperature Measurement Range	-20°C to 60°C (-4°F to 140°F)

SmartPressure Sensor	
Pressure Measurement Range	0 PSI to 99 PSI (0 kPa to 680 kPa)

SmartTemp Sensor	
Temperature Measurement Range	-20°C to 60°C (-4°F to 140°F)

COMPLIANCE

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna,
- Increase the separation between the equipment and receiver,
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected,
- Consult the dealer or an experienced radio/TV technician for help.

Warning: Any changes or modifications not expressly approved by BMPRO could void the user's authority to operate this equipment.

This device contains licence-exempt transmitter(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

(1) This device may not cause interference.

(2) This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

1. L'appareil ne doit pas produire de brouillage;
2. L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

This device is in compliance with the Radio Equipment Directive (2014/53/EU) of the European Union, and the Radio Equipment Regulation 2017 of the United Kingdom.

The full text of the UK and EU declaration of conformity is available at teambmp.com/wp-content/uploads/eu-and-uk-declaration-of-conformity.pdf

WARRANTY TERMS AND CONDITIONS (AUSTRALIA)

Registering your BMPRO product is an important step to ensure that you receive all the benefits you are entitled to. Please visit **teambmprompro.com** to complete the online registration form for your new product today.

1. BMPRO goods come with guarantees that cannot be excluded under Australian Consumer Law. You are entitled to a replacement or refund for major failure. You are entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure. The benefits under this Warranty are in addition to your other rights and remedies under a law in relation to the goods to which this Warranty relates (the Australian Consumer Law).
2. BMPRO warrants products against defects for a period of two years, commencing from the original date of purchase. Proof of purchase is required before you can make a claim under this warranty.

HOW TO PROTECT YOUR RIGHTS UNDER THIS WARRANTY:

3. The ProSmart is designed to be installed by a suitably qualified installer. You or your installer should carefully inspect the products before installation for any visible manufacturing defects. We accept no responsibility in addition to our consumer guarantee obligations where a product has been installed incorrectly.
4. This warranty does not extend to product failures or defects caused by, or associated with, but not limited to: failure to install or maintain correctly, unsuitable physical or operating environment, accident, acts of God, hazard, misuse, unauthorised repair, modification or alteration, natural disaster, corrosive environment, insect or vermin infestation and failure to comply with any additional instructions supplied with the product.
5. BMPRO may seek reimbursement of any costs incurred by BMPRO when a product is found to be in proper working order or damaged as a result of any of the warranty exclusions mentioned in point
6. To enquire or make a claim under this warranty, please follow these steps:

a) Prior to returning a BMPRO product, please email **customerservice@teambmprompro.com** to obtain a Return Material Authorisation (RMA) number

b) Package and send the product to:

BMPRO Warranty Department
19 Henderson Road
Knoxfield, VIC 3180

Please mark RMA details on the outside of the packaging

c) Please ensure the package also includes: a copy of the proof of purchase, a detailed description of the fault and your contact details including phone number and return address.

7. BMPRO will not be liable for any costs, charges or expenses incurred in the process of returning a product in order to initiate a warranty claim

LIMITED WARRANTY TERMS AND CONDITIONS (USA)

Registering your BMPRO product is an important step to ensure that you receive all the benefits you are entitled to. Please visit teambmp.com to complete the online registration form for your new product today.

What this Limited Warranty Covers

This warranty covers any defect or malfunction in your BMPRO product. Under this warranty you are entitled to have such goods replaced, repaired or refunded.

What this Limited Warranty Does Not Cover

This warranty does not extend to product failures or defects caused by, or associated with, but not limited to:

- Failure to install or maintain correctly, unsuitable physical or operating environment, accident, acts of God, hazard, misuse, unauthorized repair, modification or alteration, natural disaster, corrosive environment, insect or vermin infestation and failure to comply with any additional instructions supplied with the product.
- BMPRO may seek reimbursement of any costs incurred when a product is found to be in proper working order or damaged as a result of any of the warranty exclusions listed above.
- BMPRO will not be liable for any costs, charges or expenses incurred in the process of returning a product to initiate a warranty claim.

How Long the Warranty Lasts

BMPRO warrants products against defects for a period of two years, commencing from the original date of purchase.

Claims Process

Proof of purchase is required before the product can be deemed to be within the warranty period.

To enquire or make a claim under this warranty, please follow these steps:

- A. Prior to returning a BMPRO product, please email service@teambmp.com to obtain a Return Material Authorisation (RMA) number.
- B. Package and send the product to:

**BMPRO WARRANTY DEPARTMENT
UNIT 1 821 E WINDSOR AVE
ELKHART IN 46514**

Please mark RMA details on the outside of the packaging.

- C. Please ensure the package also includes: a copy of the proof of purchase, a detailed description of the fault and your contact details including phone number and return address.

How State Law Applies

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

POWERING YOUR ADVENTURES.



BMPRO

TEAM
BMPRO
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