

# *JAMEC PEM*

COUPLE UP WITH THE RIGHT CONNECTION

## **DIGITAL AUTOMATIC TYRE INFLATOR**



## **Operating Instructions**

Part No. 11.0578

Thank you for selecting this Jamec Pem Automatic Tyre Inflator. Please read this manual before carrying out any installation or service procedure.

This manual is an integral and essential part of the product, please keep it away from damp, heat, dust, oils, do not remove, tear or amend any parts of the manual for any reason. It must be made available to the operator and to maintenance personnel, also to ensure staff training.

If you lose or damage the manual, ask the manufacturer for a copy, quoting the Part No. The manual must always remain with the machine, in the event of the machine being sold, it must be given to the new user.

The manufacturer reserves the right to change product features at any time without notice.

## FEATURES

- Multiscale inflator: bar, psi, kpa, kgf
- Inflates to 174psi, 1200kpa, 12bar, 12kgf
- Large easy to read LCD display with audible warning
- Tough metal housing
- Individually calibrated and tested (see calibration certificate)
- Extremely accurate  $\pm 0.3\text{psi}$  @ 25 to 75psi

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## COMPONENTS LIST

Please check and make sure that the following components are complete in the package.

1. Automatic Tyre Inflator with power cord
2. 10m (33') Air Hose
3. Hook and M6 x 38 screw kit (1pc)
4. User manual
5. M6 x 38 screw 4pcs for wall mounting

## INSTALLATION

1. Unpack the unit.
2. Hold the unit up on the wall and mark where the four (4) holes are to be drilled.
3. Secure the unit using suitable fastener.
4. Connect the air supply to the unit.
5. Connect the outlet hose to the air outlet.
6. Connect the power supply.

### Warning:

1. This unit is connected directly to compressed air and this air contains oil and water. Water is from condensation and oil is from the compressor. Water and oil will destroy this device, so it is important to filter them out first from the system, this means you must attach a filter prior to this device's air connection.

### **YOU MUST USE AN AIR PREFILTER WITH THIS INFLATOR OTHERWISE WARRANTY WILL BE VOIDED**

2. Electrical connections should be carried out by a qualified person strictly according to the related regulation applicable at the location where the inflator is used.
3. To avoid equipment damage, never exceed the maximum inlet pressure of 182psi
4. To avoid the risk of personal injury, especially to the eyes, face or skin, DO NOT direct the air stream at any person.
5. This equipment is not intended for use by children without adult supervision.
6. When using the OPS function, the sum pressure must not exceed the tyre manufacturer's maximum inflation pressure.

## WARNING

To avoid the risk of personal injury, especially to the eyes, face or skin, DO NOT direct the air stream at any person, or any part of the body.

This equipment is not intended for use by children without adult supervision.

When using the OPS function, the sum pressure must not exceed the tyre manufacturer's maximum inflation pressure

## GENERAL NOTES

- During extended inactivity, please package the inflator and keep it away from damp, heat or impact, etc.
- After unpacking the inflator, the packing materials should be disposed of according to the laws and regulations applicable to the country being used.
- Please check carefully to ensure that no part is damaged, so to ensure safe and normal operation.
- This Automatic Tyre Inflator is intended for indoor use only.



Fig. 1 Control panel

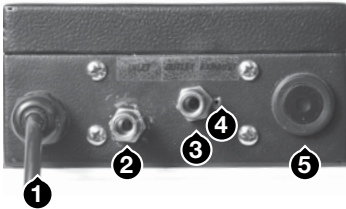


Fig. 2 Connections

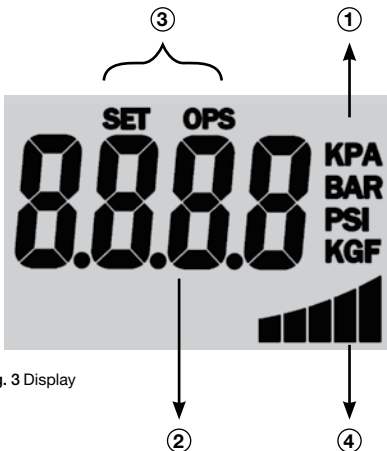


Fig. 3 Display

## PRODUCT IDENTIFICATION

### CONTROL PANEL

- ⊖ Reduce final target pressure
- ⊕ Increase final target pressure
- i Function Select: Unit change/OPS set
- Ⓢ Flat tyre/Confirm button. Use this button to start the inflation process when the pressure in the tyre is less than 3psi.

**P1** Programmable preset button

**P2** Programmable preset button

### CONNECTIONS

- 1 Power cable
- 2 Air inlet
- 3 Air hose outlet
- 4 Exhaust
- 5 Buzzer (Audible warning)

### DISPLAY

- 1 Unit of measure
- 2 Pressure display
- 3 Function selection
- 4 Rolling bar

## OPERATION

The device includes the OPS (Over Pressure Setting) function which allows for the tyre's pressure to be set very high and then reduced to the pre-determined pressure. This is very handy for use when a new tyre is fitted to a rim.

### Setting the unit of measure:

This device has four units of measure that can be chosen by the user:

- kpa - kilopascals
- bar
- psi - pounds per square inch
- kg / cm<sup>2</sup> - kilograms per square centimetre

Once the unit is set, it will become the default unit for following usage.

1. Press (■) once the unit of measure starts to flash.
2. Press (+) or (-) to choose the unit.
3. Press Flat tyre/Confirm button to set the unit of measure.

### Setting OPS:

1. Press (■) twice, OPS will be flashing on the LCD screen.
2. Press (+) or (-) to choose the OPS value.
3. Press Flat tyre/Confirm button.  
If OPS value is not zero, OPS will be displayed on the LCD screen.

### Inflation and Deflation:

1. Press (+) or (-) to select target pressure.
2. Connect with tyre valve, ensure there are no air leaks and inflator will start automatically.
3. When inflation is finished, the tyre inflator will stop automatically and BEEP to notify that inflation has finished.


4. Disconnect the air hose from tyre valve.  
Programmable Buttons:

1. Press P1 or P2 buttons once.  
Press (+) or (-) to select pressure desired.
2. Press the Flat tyre/Confirm button once and there will be a beep to confirm the programmable button has been set to the desired pressure.
3. You can set each programmable button to a different pressure.
4. If the unit is turned off the programmable buttons will have to be re-programmed.

### Functions:

1. Press (■) to enter the function setting mode. After selecting the unit of measure, press (■) again to enter the OPS setting. Pressing the (■) button three times and the device exit out of the function setting mode without saving the selection.
2. When OPS function is on, the device will inflate to target pressure plus OPS value first, then deflate to tyre pressure desired, for example: A final target of 32psi or 2.2bar with an OPS setting of 16psi or 1.1bar gives a sum of 48psi or 3.3bar. This sum of 48psi or 3.3bar is the Over Pressure setting for the tyre. The tyre will inflate to the sum value and deflate to the final target pressure.
3. If tyre pressure is lower than 3psi or 0.2bar, the device will not start automatically. Press Flat tyre/Confirm button for 2 seconds to start the inflator manually. And will inflate to the target pressure on the LCD display.
4. During inflation, the device will check tyre pressure automatically, the rolling bar shows inflation/deflation in progress and left to right means inflating, right to left means deflating.

## TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	SOLUTION
<b>Air leak</b>	Leak in the connection	Check the pneumatic connection
<b>The inflator works, But no air inflated</b>	Obstruction in the filters or in air system	Clean the filters and check the air tube
<b>No display</b>	Check power supply	Reconnect
<b>Inflation does not start, although the pressure is set and the hose is connected with tyre</b>	Air hose improperly connected connection	Check the hose connection, make sure that no air leaks
	Tyre pressure is below 0.2bar (3psi)	Press 
<b>The unit deflates very slowly</b>	The exhaust is blocked	Make sure exhaust hole is clean
<b>Er1</b>	Pressure sensor broken	Power off, change pressure sensor
<b>Er2</b>	Unstable pressure, faulty hose connector	Replace hose connector or re-connect hose to the tyre
<b>Er3</b>	Connected Tyre pressure is too high pressure > 13bar (188.5psi)	Stop inflating this tyre
<b>Er4</b>	Wrong connections at air inlet and outlet	Refer to wiring diagram and connect magnetic valve accordingly
<b>Er5</b>	Low Voltage	Check the power supply
<b>Er6</b>	Calibration error	Unit requires calibration
<b>Er7</b>	Calibration error	Unit requires calibration
<b>Er8</b>	Air supply lower than set inflate pressure	Increase air supply pressure or Stop inflating this tyre

# CALIBRATION CERTIFICATE

This Digital Automatic Tyre Inflator has been calibrated in its normal working position on test equipment with an accuracy that is traceable to International Standards according to: 86/217/EEC

ALLOWABLE TOLERANCE		
<b>BAR</b>	±0.08	up to and including 4bar
	±0.16	between 4bar and 10bar inclusive
	±0.25	greater than 10bar
<b>psi</b>	±1.2	up to and including 58psi
	±2.3	between 58 and 145psi inclusive
	±3.6	greater than 145psi

TEST RESULT					
<b>REFERENCE PRESSURE</b>					
<input type="checkbox"/> BAR <input checked="" type="checkbox"/> PSI		29.0	58.0	87.0	116.0
<b>DISPLAY PRESSURE</b>					
<input type="checkbox"/> BAR <input checked="" type="checkbox"/> PSI					

Serial Number: \_\_\_\_\_

Date: \_\_\_\_\_

## SPECIFICATIONS

<b>Reader Unit</b>	Digital display with back light display
<b>Chuck type</b>	Clip on non-sealing chuck
<b>Chuck style</b>	Single straight
<b>Max inflation</b>	174psi
<b>Scales</b>	174psi, 1200kpa, 12bar, 12kgf
<b>Inlet Size</b>	1/8" BSP
<b>Hose length</b>	10m
<b>Dimensions</b>	190L x 150W x 70H mm
<b>Weight</b>	2.3kg
<b>Accuracy</b>	±0.3psi @ 25 to 75psi
<b>Operation</b>	Auto inflate, deflate, measure
<b>Supply pressure max</b>	182psi
<b>Advised Application</b>	Indoor industrial, workshops
<b>Supply voltage</b>	110-240VAC (50-60Hz)
<b>Watts</b>	10
<b>Inflation flow</b>	2500l/m @ 182psi
<b>Working Temp</b>	-10 to +50 Celsius
<b>Relative humidity</b>	Up to 95% RH non-condensing

**JAMEC PEM**  
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Distributed by  
**Companion Brands**  
Bundoora VIC 3083

For more information contact  
Customer Service on 1300 555 197

[www.jamecpem.com.au](http://www.jamecpem.com.au)

## MAINTENANCE

### Daily Maintenance

The device does not require a particular maintenance routine but a check of the pneumatic connections is suggested frequently to make sure of correct air supply, the use of an air pre-filter is mandatory for this unit to operate properly.

### Special Maintenance

This is a sensitive piece of equipment if you have an error that cannot easily be fixed please contact an authorised service agent.

**Note:** All faulty PCBs that are within the warranty period are to be returned to factory for assessment and repairs. PCBs that are found to be burnt due to water damage will not be covered under any warranty.

## WIRING DIAGRAM

