

# Professional Digital Tyre Inflator

Made in Taiwan

## A. Hardware Specifications:

1. Pressure sensor range: 0-200 psi (0-1,379 Kpa/13.79 Bar/14.06 Kgf/cm<sup>2</sup>), Accuracy  $\pm 0.5\%$  Full Scale (0-50°C/32-122°F), Burst Pressure 300 psi (2,068 Kpa/20.68 Bar/21.09 Kgf/cm<sup>2</sup>), 4-Digit LCD Display showing tire pressure value and setting parameters.
2. Error message issued when measured tire pressure is 105% (210 psi/1,448Kpa/14.48Bar/ 14.76Kgf/cm<sup>2</sup>) above sensor limit (200 psi).
3. Deflation pressure range: 10-150 psi (70-1,030 Kpa/0.7-10.3 Bar/0.7-10.5 Kgf/cm<sup>2</sup>); Required source pressure: 100-180 psi (700-1,240 Kpa/7-12.4 Bar/7-12.65 Kgf/cm<sup>2</sup>).
4. Working temperature range: 0-50 °C (32-122 °F).
5. Input Voltage: AC 100V-240V, 50/60Hz (Auto Select).
6. Manual unit select between in Pai, Bar, Kpa, and Kgf/cm<sup>2</sup>.
7. Choose between Auto-Mode or Manual-Mode for Inflation or deflation.
8. Can be interrupted during inflation process: simply remove air chuck from tire valve.
9. Backlight automatically turns off after being inactive for 10 seconds; the system automatically enters energy saving mode after being inactive for 1 minutes.
10. When battery is low, battery indicator will flash for 5 seconds then automatically enter energy saving mode.
11. Battery can be recharged through the DC power inlet.
12. If the tire pressure is off by +/- 0.5 psi (5 Kpa/0.05 Bar/0.04 Kgf/cm<sup>2</sup>) after reached the target setting, the system automatically bleeds or refills the tire to the target setting.
13. Inflator stops working as soon as any errors or malfunctioning conditions is detected. LCD screen will display the corresponding error code. Remove air chuck from the tire can disable the alarm and reset the system back to the last step.

## B. Operation Procedures:













1. Set Target Pressure under Auto Mode: Press + button to increase and - button to decrease the target pressure setting. Press and hold + (or - button) for 3 seconds to increase (or decrease) the setting continuously.
2. Auto-Mode (When tire pressure is higher than 3 psi/21Kpa/0.21Bar/0.21 Kgf/cm<sup>2</sup>):
  - a) Set the target pressure, b) Connect the air chuck to a tire, c) the system sounds a short beep and automatically starts inflation/deflation process. When reached the target pressure, the system sounds a short beep continuously until the air chuck is removed from the tire.
3. Auto-Mode (When the tire is flat or less than 3 psi):
  - a) Set the target pressure and connect the air chuck to the flat tire, b) press and hold the START/ZERO button until hearing a beep, the system then automatically starts inflation/deflation process until reached the target pressure. Alarm will sound a short Beep continuously until the air chuck is removed from the tire.

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4. Manual-Mode: Press + button to fill and - button to bleed, after the air chuck is connected to a tire. During inflation/deflation, the LCD screen shows '- - -' until either button is released then it will existing pressure..
5. When switched from Manual Mode to Auto Mode after the air chuck is connected, and the measured tire pressure is higher than 3 psi, the system automatically starts adjusting the tire pressure to target setting if no button is pressed within 3 seconds window. To change the target setting, + or - button must be pressed within a 3 seconds followed by the Start/Zero button to get the system working immediately.
6. UNIT/MODE: Press the button to switch between Psi, Bar, Kpa, and Kgf/cm2.
7. Press and hold UNIT/MODE button and release when hearing a Beep to switch between Auto-Mode or Manual-Mode.
8. Press START/ZERO button to turn on the LCD backlight.
9. Press '-/ON' button to power up the system from energy saving mode. The system automatically enters energy saving mode after staying inactive for 1 minutes.
10. Manual Tare/Zero: Press and hold START/ZERO until the system sounding a beep.

## C. Error Message:

1. Psi, Bar, Kpa, Kgf/cm2: Available pressure unit.
2. Auto/Manual: Current inflation process setting, automatically or manually.
3. Set/Actual: Set indicated the target pressure setting; Actual represents the existing tire pressure.
4. Battery capacity indicator:  (<10%),  (>10%),  (>50%), and  (>80%). When there is 10% or less battery power, the system flashes the LCD screen for 5 seconds then automatically enters energy saving mode.
5. When recharging battery: the battery indicator repeatedly shows  ->  until it is fully charged then shows a full bar .
6. When system is performing filling or bleeding function, the screen repeatedly shows  ->  ->  ->  in sequence until it finishes then shows .
7. Er0: Can't detect or communicate with any pressure sensor.
8. Er1 : No pressure change during initial inflation process.
9. Er2 : Solenoid valve fails to open.
10. Er3 : Operation suddenly halted by the user.
11. Er4 : Air chuck accidentally fell off or removed during work in progress.
12. Er5 : Air chuck is not connected to the tire valve.
13. Er6 : Solenoid valve fails to close.
14. Er7 : Tire pressure is out of range.
15. Er8: Input air pressure is lower than target setting.

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## D. Recommendations:

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1. Always press any button on the control panel to stop the operation before removing the air chuck, especially when the system is under working.
2. When the systems shows an error message, always resolve the problem(s) before continuing the system operations.
3. Do not place the system near or in the water.
4. Confirm the air chuck is connected securely to the valve before any operations.
5. Always remove the air chuck when hearing the beep that confirms the tire has been inflated/deflated to the target setting. If the beeping suddenly stops, the system may be adjusting (refilling or bleeding) the pressure and do not remove the air chuck until hearing the continuous beeping alert.
6. Confirm the system is connected to a stable air source (100-180 psi) before starting the operations.

## E. Electrical Characters:

ITEM	SYMBOL	MIN	TYP	MAX	UNIT
OPERATING TEMPERATURE	Top	0	-	+50	°C
STORAGE TEMPERATURE	Tst	-20	-	+70	°C
CHARGER VOLTAGE	Vac (50/60HZ)	100	-	240	V
OFF State Supply Current (Vdc = 12V)	Idc	--	--	1	mA
On State & BLED-ON Current (Vdc = 12V)	Idc	--	--	15	mA
On State & BLED-OFF Current (Vdc = 12V)	Idc	--	--	8	mA
ACTION CURRENT	Idc	--	--	400	mA
Li-ion Battery Capacity	Ibt	--	--	1100	mAh
Battery Voltage ( 3.7V * 3 )	Vbt			11.1	V