

# SW102 DISPLAY USER MANUAL

converted<sup>®</sup>



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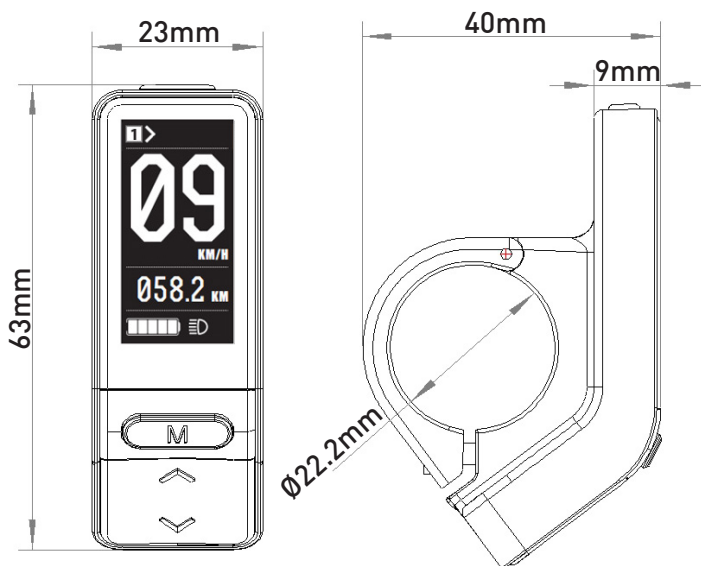
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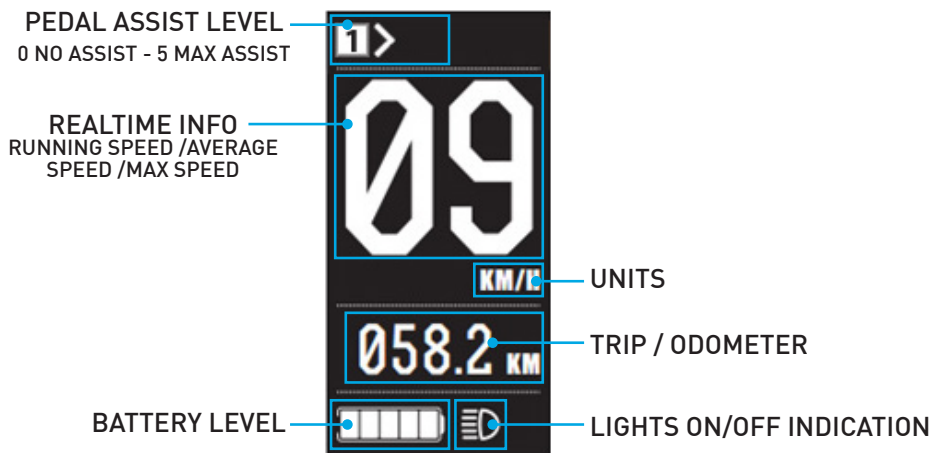
# CONTENTS

<b>DISPLAY OVERVIEW</b>	<b>4</b>
<b>SCREEN LAYOUT/SPECIFICATIONS</b>	<b>5</b>
<b>MAIN USER SCREEN</b>	<b>6-8</b>
-TURNING THE SYSTEM ON AND OFF	
-VIEWING THE MAIN USER INFORMATION	
-SETTING THE PEDAL ASSIST LEVEL	
-LIGHTS	
-WALK ALONG	
-BATTERY LEVEL INDICATOR	
<b>ADJUSTING SETTINGS</b>	<b>9-10</b>
-UNITS	
-WHEEL SIZE	
-PASSWORD	
-AUTO OFF	
-ASSIST SPEED-LIMIT SETTING	
-BATTERY	
-INFO	
-FACTORY RESET	
<b>DATA RESET</b>	<b>11</b>
<b>FAULTS</b>	<b>12-13</b>
-TROUBLE SHOOTING	
-ERROR CODES	

# DISPLAY OVERVIEW



## SCREEN LAYOUT



## SPECIFICATIONS

Power supply: DC 24V/36V/48V

Rated current: 12mA

Screen specification: 1.3" OLED, 64x128 pixels

Operating temperature: -20°C ~ 60°C

Storage temperature: -30°C ~ 80°C

Waterproof level: IP65

Note: While this display is IP65 rated, it is recommended that additional protection is used (a plastic bag over the display works well) if the bike is on the carrier of a car or if exposed to the elements for extended periods of time.

# MAIN USER SCREEN

## TURNING THE SYSTEM ON AND OFF

Ensure the switch on the battery is in the 'On' position.

Hold the Display Power button for 2 seconds, then the display will power on.

With the display on, holding the Power button for 2 seconds will turn off the system.

Additionally, you can shut the system down by turning the battery off.

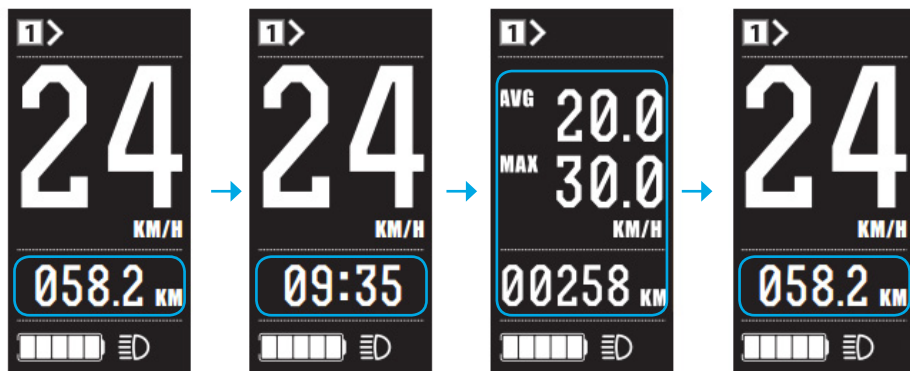


## VIEWING THE MAIN USER INFORMATION

After starting up the display the default main user screen is 'speed'.

Short presses of the 'M' button change the indicated information in sequence as below:

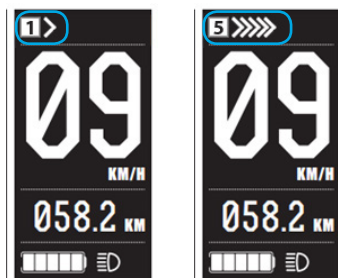
Trip Distance → Riding TIME → Ave/Max Speed + Odometer Distance → Trip.



## SETTING THE PEDAL ASSIST LEVEL

Adjusting the assist level sets the amount of motor power that assists your pedalling.

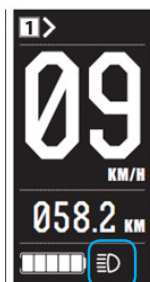
Press + (UP) or - (DOWN) to change the output power of the motor. The power ranges from level 0 to level 5. Level 0 deactivates the pedal assist system. Default start level is 1, Level 5 is the maximum power.



## LIGHTS

Hold the + button for 2 seconds to turn on the **Converted** System riding lights and display back light. The light symbol will show when on.

Hold the + button for 2 seconds to turn the lights off.



**Converted** System lights can be purchased from [www.converted.co.nz](http://www.converted.co.nz) or dealers.

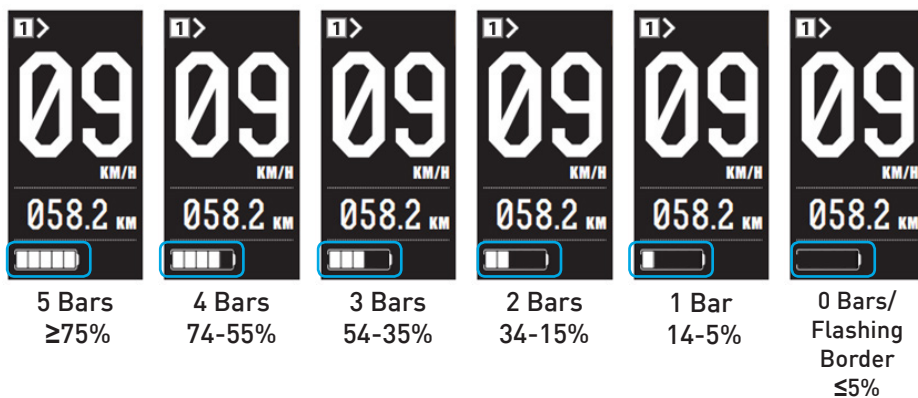
## WALK ALONG

Hold the - button down to cause the bike to move along at walking speed.



## BATTERY LEVEL INDICATOR

The 5 battery bars represent the capacity of the battery.





# SETTINGS

Enter and adjust within the settings menu.

Turn the system on, within 10 Seconds press and hold Mode. The screen will switch to the 'setting' menu.

2. Press and hold  
Immediately after startup  
(before 10 seconds)



SET
[ Exit ]
Unit
Wheel
Passwor
AutoOff
Speed
...

SET
...
AutoOff
Speed
Battery
Info
Reset
...

Navigate the menu using short presses of the up/down keys. Select adjustment sub-menus with a short press of the 'M' key.

Use the 'M' key and up/down to adjust the associated values(see below).

Press 'Exit' to accept a setting and return to the main setting menu.

To exit the settings menu, either select 'Exit' or wait 10 seconds for the display to time-out and automatically revert back to the main user mode.

## UNITS

In the 'Unit' setting menu, use the M button to toggle between KM/H and MPH

Select 'Exit' to accept a setting and return to the main setting menu.

## WHEEL (SIZE)

In the 'Wheel' menu, press 'M' to select the correct value to match the wheel diameter. Selectable values include: 14, 16, 18, 20, 22, 24, 26, 27.5, 700C, 28, 29.

Select 'Exit' to accept a setting and return to the main setting menu.

## PASSWORD

For added security, it is possible to set a password/4 digit pin number which needs to be entered to start the ebike system.

In the 'Password' menu, press 'M' to turn the password function on/off. When the password is turned on, an old password will be requested, the default is '0000'. Use 'M' to select each digit, and up/down to change the value.

Then enter a new password/pin number (twice to confirm).

Press Mode to confirm the modification and go to the next setting. the next time the bike is turned on, the password will be requested.

## AUTO OFF

It is possible to adjust the system time-out which shuts down the system after inactivity.

In 'AutoOff' mode, scroll up/down and select the desired Auto Off delay between 1, 2, 3, 5, 8, 10 minutes. Default is 5 Minutes.

## ASSIST SPEED-LIMIT SETTING

When the running speed is faster than the speed limit setting, the controller will cut off the motor power. The speed limit default setting is 25Km/h. Press +/- to select the desired value. 99Km/h is unlimited.

Press 'M' to confirm the modification and go to the next setting.

## BATTERY

The Battery menu gives a summary of the % and current Voltage of the battery and number of charge cycles.

## INFO

The Info menu gives a summary of the display information. serial number, Firmware and Hardware versions.

## RESET

This will perform a factory reset and all custom settings will revert back to their default setting

# DATA RESET

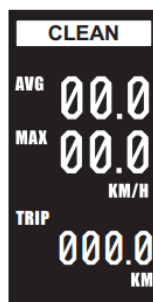
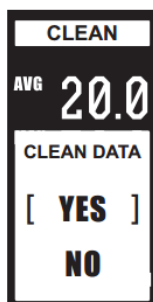
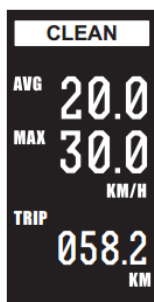
## CLEARING TRIP METER, MAX AND AVERAGE SPEED

Turn the system on, AFTER 10 Seconds press and hold 'M'.

Press and hold after waiting 10 Seconds from startup



The screen will switch to the 'Clean' mode, Press 'M' to clean data, select 'Yes' to clear Avg Max and Trip meter (the odometer will not be cleared).



# FAULTS

## TROUBLE SHOOTING

### My bike won't go!

1. Ensure the battery is charged by pressing the battery level indicator button on the side of the battery.
2. Follow the cables on the bike and make sure no plugs have been pulled out.
3. Make sure that brake levers are in their 'out' position. Disconnecting the brake lever plug can help remove this as a potential issue.
4. Contact your [Converted](#) System dealer.

## ERROR CODES

If the system detects an electrical issue, an error code will show up on the display. This can assist in determining the fault and will self clear after the fault has been fixed.



#### **04 Throttle not returning**

Check for obstruction or damage to throttle movement.  
Replace throttle.

#### **05 Throttle sensor problem**

Replace throttle.

#### **06 Low voltage protection**

Flat battery or incorrect battery. Change battery. Check for battery connections for corrosion.

#### **07 Over voltage protection**

Incorrect battery. Use correct battery.

- 08 Motor sensor problem**  
Contact service center.
- 09 Motor wire problem**  
Contact service center.
- 11 Temperature sensor problem**  
Contact service center.
- 12 Current sensor error**  
Contact service center.
- 14 Motor Temperature error**  
Contact service center.
- 21 Speed sensor problem**  
Check speed sensor is close to magnet on wheel. LED on sensor should flash when magnet passes. If no flash, replace sensor.
- 30 Communication problem**  
Check all plugs. Check cables for damage. Contact service center..



**Contact us at**  
**[hello@converted.co.nz](mailto:hello@converted.co.nz)**

**Find your local dealer through our Converted website**  
**[www.converted.co.nz](http://www.converted.co.nz)**