

**ACE-5614EC User Manual**

Thanks for purchasing the e-Scooter/e-Vehicle computer; please read the manual before using it.



**PANEL DESCRIPTIONS**

- 1.Bar-speedometer Scale
- 2.Bar-speedometer
- 3.1st row: Speedometer
- 4.2nd row: Other function
- 5. LED Indicators
- 6. RESET Button
- 7. MODE Button
- 8. Bar SOC
- 9. Bar temperature gauge
- 10. Assist Level

**FEATURES**

- Multi-functional LCD electric Bike/Vehicle computers indicate bar-graphic speedometer, Speedometers, bar SOC, bar temperature meter and one of other functions simultaneously.
- CANBUS protocol V2.0B.
- The 2nd row of LCD indicates message from controller or battery.
- Built-in 7 individual control LED indicators.
- Odometer and total running timer are stored in memory, even when the power is off.
- Built-in backlight will be turned on when light is switched on.
- Wide wheel circumference setting rang: 1-3999mm.
- Metric/Empire unit option available.
- Excellent water resistant, anti-vibration structure and noise immunity design.

**SPECIFICATIONS**

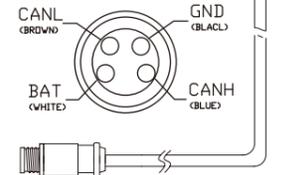
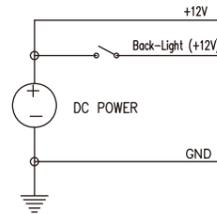
Functions	Symbol	Specifications
Bar speedometer		2.4-160km/h
Speedometer	Km/h or MPH	2.4-200.0Km/H(124MPH)
Trip Meter	TRIP 1&2	0.0-999.9 KM/Miles
Odometer	ODO	0 - 999999 KM, 0-624999 Miles
Maximum Speed	MAX	2.4-200.0Km/H(124MPH)
Running Timer	RT	0-99H59'59"
Total Running Timer	TT	0-9999H59'
Average speed	AVG SPD	2.4-200.0Km/H(124MPH)
Maximum speed	MAX SPD	2.4-200.0Km/H(124MPH)
Voltage meter		Follows protocol from controller
Digital temperature		Follows protocol from controller
Bar SOC		21bars for 0-100%
Bar Temperature		21bars for 0-100%

Power Input	DC 12V or 24V
Protocol	CANBUS V2.0B
Speed Signal	From controller
Wheel circumference setting	From controller protocol
Power Consumption	5mA at on status without backlight 45mA with backlight
Dimensions	130.1mm x82.8mmx27.0 mm

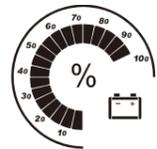
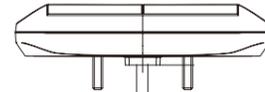
**WIRING DIAGRAM**

Symbol & Color of Indicator

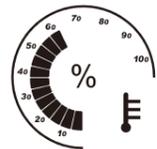
Item	Symbol	Indicator	Color	In
1		Turn-L	Green	CAN
2		High-Beam	Blue	CAN
3		Charge	Red	CAN
4				
5				
6		Battery	Amber	CAN
7		Main-Beam	Green	CAN
8		Perber	Blue	CAN
9		Turn-R	Green	CAN
		Back Light	White	
		CABLE	8R12C*400mm	



CAN-BUS 2.0A@125KHz  
ACE-5614EC



BAR	LED	SOC-In(%)
1~20	On	Off 91~100
1~18	On	Off 81~90
1~16	On	Off 71~80
1~14	On	Off 61~70
1~12	On	Off 51~60
1~10	On	Off 41~50
1~8	On	Off 31~40
1~6	Flash	On 21~30
1~4	Flash	On 11~20
1~2	Flash	On 1~10
0	Flash	On 0



BAR	LED	Temp-In (°C)
1~20	Flash	On 116~125
1~18	Flash	On 106~115
1~16	Flash	On 96~105
1~14	On	Off 86~95
1~12	On	Off 76~85
1~10	On	Off 66~75
1~8	On	Off 56~65
1~6	On	Off 46~55
1~4	On	Off 36~45
1~2	On	Off 26~35
0	Off	Off <25

**FUNCTIONS**

: Bar-Graphic Speedometer

The bar speedometer is up to 160km/h.

**Km/H or MPH: Speedometer**

Displays speed meter up to 200.0 Km/H.

**TRIP: Trip Meter**

TRIP function accumulates trip distance since last RESET as long as bike/vehicle is moving.

**ODO: Odometer**

- 1.ODO accumulates total distance traveled.
- 2.ODO data is adjustable when it is less than 30km (18.6 Miles), after that it stored in memory and cannot be reset.

**MAX SPD: Maximum Speed**

Displays highest speed achieved since last Reset operation.

**AVG SPD: Average Speed Meter**

It calculates average speed from last RESET. The AVG is calculated by the speedometer from TRIP be divided by RT.

**RT: Riding Timer**

1. Calculates total running time since last RESET.
2. Counter automatically begins with movement.

**TT: Total Riding Timer**

1. Calculates total riding time from the beginning of the bike.
2. TT data is stored in memory, and couldn't be reset.

: Digital Voltage Gauge

It checks bike's battery and charging systems health. Signals are from controller.

: Digital temperature meter

1. It displays temperature in °C or °F.
2. The LCD screen flashes the digits of temperature when the temperature is higher than the preset warning temperature.

: Bar-graphic SOC

It displays 0-100% of SOC.

:Bar-graphic temperature meter

- 1.It has 21 bars, the 20th bar is the same as preset temperature.
- 2.The temperature bar-graphic flashes when temperature is higher than the preset warning temperature.

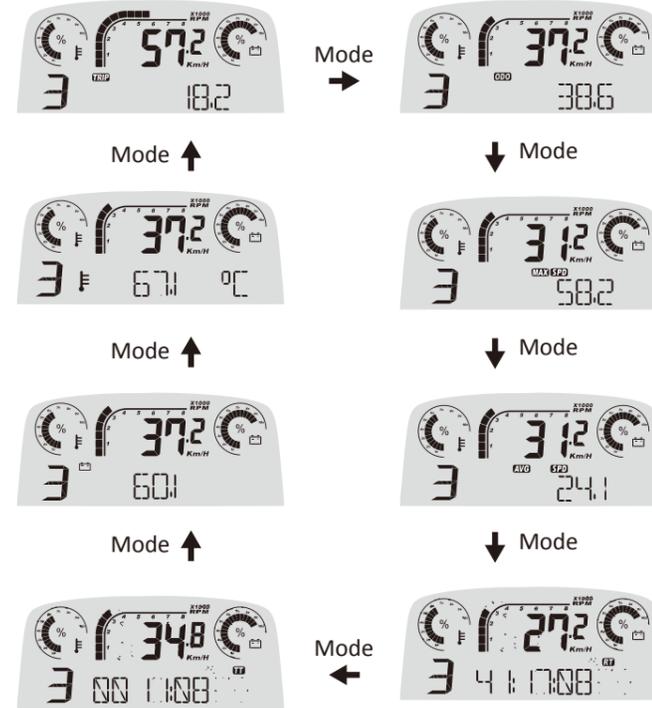
**Assist Level**

It displays the assist level of the bike .

**BUTTON OPERATIONS**

**MODE Button**

- 1.Press the MODE button to move between all functions in sequence as "→" from one function screen to another.



**RESET Button**

- 1.Press MODE button to the desired screen then press RESET button for 2 seconds to reset MAX SPD, AVG SPD data from stored values to zero individually.
- 2.The data of Trip, AVG & RT will all be reset at the same time when one of the 3 data functions is being reset.
- 3.ODO and TT data cannot be reset.



**Bar SPD, Wheel CIRCUMFERENCE, Unit, SPD Decimal, Maintain, Drop and ODO Se**

- 1.Setup operations include bar-graphic speed, Warning temperature, speedometer units and assist level adjustment. These must be set up step by step. The computer will be automatically reverted to normal mode if no button is pressed for 75 seconds at any setting screen.
- 2.Press both MODE & RESET buttons to go into setting mode. In setting mode, each press of the RESET button increments the flashing digit by 1 or converts units. Press MODE button to confirm the digit setting and warning jump to next digit or next setting screen to be set. Press MODE button for 2 seconds at any setting screen to finish the setting and go to normal mode.
- 3.It displays speedometer scale 80 & SPD01 or 160 & SPD02. Operates buttons as descriptions of item 2 to finish bar-graphic speedometer scale setting and jump to warning temperature setting.
- 4.It displays "ALARM & flashing number of XXX", the range of temperature setting is from 80°C to 135°C. Operates buttons as descriptions of item 2 to finish bar-graphic speedometer scale setting and jump to speedometer units setting.
- 5.It displays "SPD UNIT & flash Km/H or MPH", each press of RESET button converts unit; press MODE button to confirm unit setting and jump to assist level setting.
- 6.It displays "ASSIST & a flash digit", the digit can be set from 0 to 4. Follow the item 2 of button operation to finish the setting and jump to speedometer scale setting or return to normal mode by press and hold the MODE button for 2 seconds.

