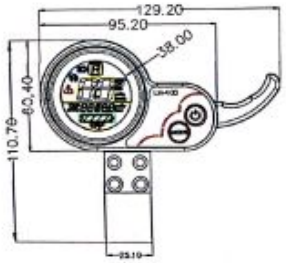
DASHBOARD SETTINGS FOR EVOLV PRO AND CITY ESCOOTERS

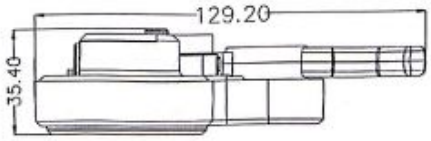
PRODUCT SPECIFICATION

The throttle housing is made from ABS. The transparent display is made of high hardness acrylic, with a hardness value equivalent to toughened glass. The display comes with a protective film installed.



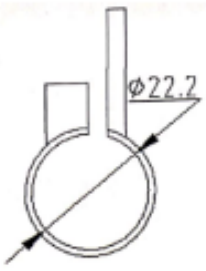
Elevation

Top View



Side elevation

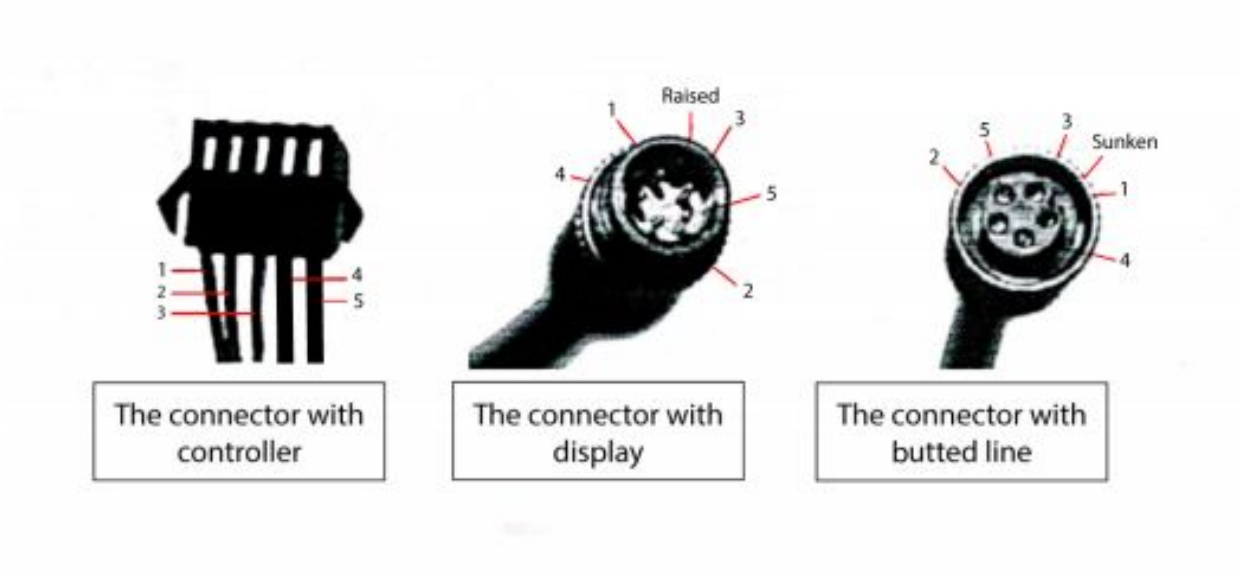
Side View



The support of LH-100

Side view of handlebar mount bracket

MODE CONNECTION



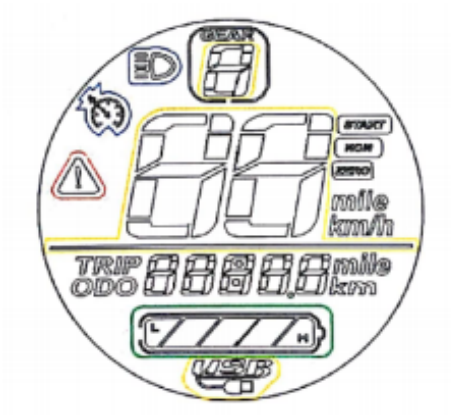
Standard connection

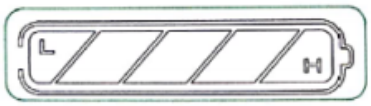
	The color of the line	Function
1	Red (VCC)	The power of the display
2	Blue (K)	The power of the controller
3	Black (GND)	Ground line of display
4	Green (RX)	The data acceptance line of display
5	Yellow (TX)	The data transmission line of display

*Some displays use waterproof plug-in components, hiding the color of the line

FUNCTION

1. Show Content:
   The content of Speed, Power, Hitch, Total mileage, Single mileage
2. The Function of Control and Setting:
   Controller the switch power, Wheel diameter setting, Idle automatic sleep time setting, Back setting, Startup mode setting, Drive mode setting, Voltage level setting, Controller current limit setting, USB charging function
3. Communicating Protocol: URAT
   All content on display (power on within 1 second)



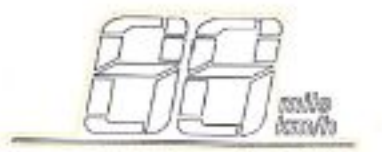


3.1 Voltage Level 3.2 Multifunctional display area

Total mileage	**ODO**
Single mileage	**TRIP**
Digital voltage display	**VOL**
Fault code	**ERR**

Fault Code (decimal system)	Fault Condition	Remarks
0	Normal status	
1	Keep	
2	Brake	
3	PAS sense hitch (Riding sign)	Not implemented here
4	6 km/h cruise	

5	Real-time cruise	
6	Battery undervoltage	
7	Motor fault	
8	Turnstile fault	
9	Controller fault	
10	Communication receiving fault	Accessing setting menu too quickly after turning on
11	Communication transmission failure	
12	BMS communication failure	
13	Headlamp failure	

3.3 Speed display area 

Unit: MPH, KM/H

The speed signal is taken from the Hall effect sensor inside the motor. Sent to controller by controller (Time of single Hall period, unit: 1MS). The display calculates the true speed based on wheel diameter and signal data. (The motor Holzer also needs to set the number of magnetic steel) The sensor creates data based on magnets in the motor. Default setting is 28.

3.4 Vehicle power gear adjustment

0 – 9 display readout. Gears 1 – 3 possible

3.5 Vehicle status display area

	Zero start and non-start
	Headlights are turned on
	Cruise control is active
	Communication fault
	USB charging in use

3.6 Setting

SET TO YOUR PREFERENCE **DO NOT CHANGE**

Setting Page	Function
P01: Backlight brightness	Level 1: the darkest Level 3: the brightest Default: 3
P02: Mileage: unit	0 : KM 1 : MILE Default: KM
P03: Voltage level	EVOLV City: 36V EVOLV Tour: 48V EVOLV Pro: 52V

P04: Scooter/Display shut-off time	0 : no automatic dormancy Other numbers: dormant times The range is 1 – 60 minute. Default: 5 min
P05: Unused	
P06: Wheel diameter	The unit is inch. The accuracy is 0.1 EVOLV City: 8.0 EVOLV Tour: 8.5 EVOLV Pro: 10.0 Default: 10.0
P07: Speed measuring magnet number	The range is 0-255. Default: 28
P08: Speed-limiter	The range is 0% – 100% (of scooter possible, top speed) Default: 100%
P09: Zero start (Kick start), Non zero start setting (No kick start)	0 : zero start 1 : non zero start Default: 0
P10: Unused	
P11: EABS switch strength	The range is 1 – 5.0. Factory setting: 1 1 : weakest 5 : strongest
P12: Acceleration	The range is 1 – 5 1 : softest 5 : hardest Default: 3
P13: Unused	
P14: Unused	

P15: Controller under-voltage	Leave at factory settings. Voltage cut-offs: EVOLV City: min. 29V EVOLV Tour: min. 38V EVOLV Pro: min. 41V
P16: ODO Zero setting	Keep pressing + for 5 seconds, ODO will reset to zero
P17: Cruise control setting	When it shows 0, cruise is “off”. When it shows 1, cruise is “on”. Default: 0
P18: Unused	
P19: Unused	
P20: Communication protocol	Default: 4 It cannot be changed.

BUTTON AND INTERFACES

1. When the display is off, press and hold down [POWER] to turn it on.
   To turn the display off, press and hold down [POWER] to turn it off.

2. Once the power is on, you can change the interface between displaying ODO, TRIP or VOL by pressing [POWER] for a short time. Short-term pressing [MODE] can change speed mode 1 - 3.

3. Press and hold [POWER] and [MODE] to enter the setting menu and change the interface.
   a. Once into the setting menu, press [POWER] for a short-time to change parameter (P).
   b. Long pressing [POWER] adjusts the direction the numerical values are changed in. Use [MODE] to change numerical values. (A) adds to the value, (D) reduces.
   c. To exit setting menu, press and hold [POWER] and [MODE] down, or wait 8 seconds, it can save the numerical value and exit by itself.

THROTTLE SPEED CONTROL

Throttle finger hook regulates motor speed. Hold throttle down to increase speed; relax hand for it to return to zero.