

DP E08.UART



CONTENT

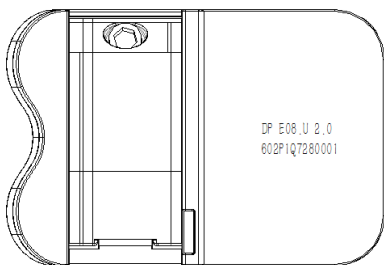
Content.....	1	Normal indication area.....	6
Introduction.....	2	Button definition.....	7
Overview drawing.....	3	Normal operation.....	7
Specifications.....	4	Error code definition.....	8
Functional overview.....	5		

INTRODUCTION

- Name: Intelligent LED HMI
- Model: DP E08.UART
- Scope: EN15194 EPAC
- Appearance:



- Numbering on the back of HMI
Numbers are divided into two lines (as shown in the figure):



A. First line as below

DP E08.U 2.0

- ① DP E08.U : BAFANG display HMI model
- ② 2.0: hardware version number

B. Second line as below

602P1Q728000

① 602: Wire length and connector model
850 M5.2

② P1: Test device code

③ Q7280001: Production date is
July 28th,2016; SN is 0001

- Cable label number rule

Numbers are divided into two lines and QR code is right side (as shown in the below figure)



Content of QR code:

DPE08P10201.1

PD2526051205

DP E08.U 2.0

602P1Q7280001

The first line:

DPE08P10201.1 - Software version

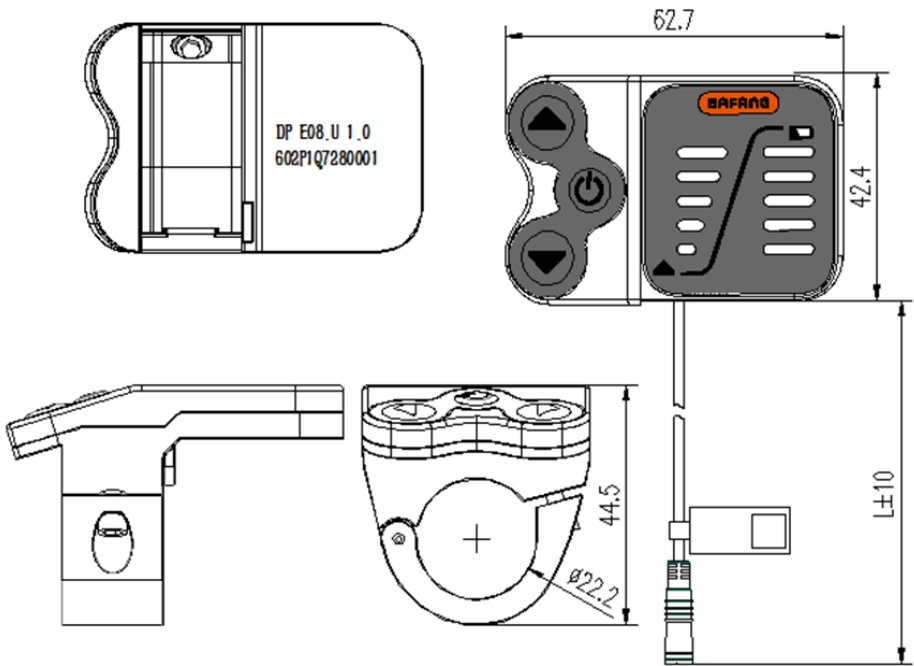
The second line:

PD2526051205 - Parameter code

The last two lines:

DP E08.U 2.0 / 602P1Q7280001 - SN

OVERVIEW DRAWING



SPECIFICATIONS

- Rated voltage: 36V/43V/48V DC
- Rated current: 35mA lines(as shown in the figure)
- Maximum working current: 35mA
- When power off, leak current is less than: 1uA
- Working current supplied to controller: 50mA
- Operation temperature: -20 °C~45 °C
- Storage temperature: -30 °C~70 °C
- IP level: IP65
- Storage humidity: 30%-70%

FUNCTIONAL OVERVIEW

- Using the bidirectional serial communication protocol and the three-key keypad enables users to operate the display with ease
- Intelligent battery level indication: thanks to an optimization algorithm, a stable display of the battery level is ensured, and the problem of fluctuating battery level indications common to most displays is avoided
- Lamp automatic control: automatic turn on/off for front and rear lamps when outside light changes
- LED brightness automatic adjustment: according to the change of outside light, adjust LED display luminance automatically, that solve the problem of dazzling display at night and indistinct display under the strong light common to most LED display in the market
- PAS level control: 0/1/2/3/4/5
- Error code prompt
- Push assistance
- Set parameters: via communication cable, may in PC set parameters including wheel diameter, speed limit and so on, please see specific parameter set description document
- If standby within 5 minutes system will turn off automatically

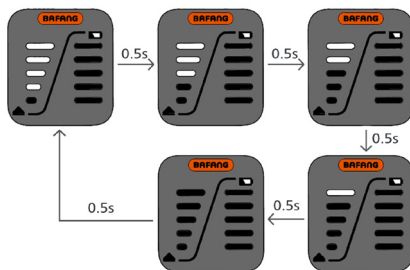
NORMAL INDICATION AREA



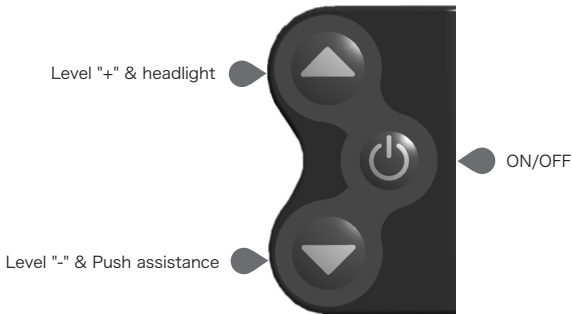
- State of charge indication: 5 LED indicate the state of charge, if the lowest LED flickers, it means the time to charge the battery

LED indication definition (from down to up)	SOC
5	>75%
4	50%-75%
3	30%-50%
2	10%-30%
1	<10%
1 Flickers	≤5%








- PAS level indication: Indicate current PAS level 0~5; if no LED display, it mean it is level 0; 1~5 is in accordance with the PAS level. In the mode of Push Assistance, LED loop light one by one from down to up with 0.5s time interval (as shown in the below figure)



BUTTON DEFINITION



NORMAL OPERATION

- Power on/off
 - press  for 2s, the display will turn ON;
 - press  for 2s, the display will turn OFF. It will automatically turn OFF when standby in 5 minutes.
- PAS level selection
 - Press  or  to switch between the different support levels (0 / 1 / 2 / 3 / 4 / 5); Lowest level and the default level is 1; Highest level is 5; when no LED light, it is level 0 (mean park level)
- Lamp/LED display luminance
 - Press  for 2s, LED display turn dim, then turn on the front lamp and rear lamp at the same time. Again press  2s, LED display highlight, meanwhile turn off front light and rear light (if fail to manipulate the lamps manually, need to restart the LED HMI and then lamps can restore automatically)
- Push-assistance selection
 - Press  for 2 seconds, the push assistance will be turned ON, and level LED flicker, if you move your finger away from this button, the push-assistance will be turned OFF

ERROR CODE DEFINITION

i This system can indicate all errors occurring on the Pedelec. In certain modes, the LEDs will flicker when an error code occurs.

Error code	Error definition	Solution
The second LED flickers 7 times in rapid succession	High voltage protection	Check the battery voltage
The second LED flickers 8 times in rapid succession	Fault with motor hall sensor inside	Have your dealer check the motor stator
The first LED flickers once	The motor temperature reaches to the max protection value	Stop riding and wait until the LED stop flickering
The first LED flickers once then the second LED flickers twice	Fault with current sensor inside controller	Have your dealer check the controller
The first LED flickers once then the second LED flickers 3 times	Fault with temperature sensor inside battery	Check the battery
The first LED flickers twice then the second LED flickers once	Fault with wheel speed detecting sensor	Check the motor stator
The first LED flickers twice then the second LED flickers twice	BMS communication fault	Replace the battery
The first LED flickers 3 times in rapid succession	Communication fault	<ol style="list-style-type: none">1. Check the connectors between the EB-BUS and the controller2. Replace the controller

NOTES
