Fahold 华浩德
Fahold driver, Making every lamp more reliable


Schematic Diagram

Description

1. Hand Type, powered by dry cell, can be used at anytime and anywhere
2. Off-line programmble,can be operated at anytime and anywhere
3. Simple wiring with only DIM+ and DIM-
4. Every setup can be saved as default.
5. Loading /Read-back time less than 2 seconds per minute
6. shutting down automatically if no operation within five minutes; extending battery life.

1. Layout

(1) screen（displaying operating information)
(2) indicator light (indicate operation status)
(3) Keys（enter instruction)
(4) Dimmer connection port（Connect to Dim wires of led driver)
(5) USB port（upgrade programmer version)

Keys instructions

· **Power button:**Long press for power on/off programmer
· **Write:**Data write operation/write success Green on and rings once, write failure red on and rings three times
· **Select:**Select parameters that you want to adjust
· **OK:**Enter option (series/model)
· **Back:**return the upper-level menu/interface
· **Up:**upturn menu options/Upturn selected parameters
· **Down:**Scroll down menu options/down selected parameters
· **Page 1:**Enter the time control Settings/display interface (valid only when Tim is ON)
· **Save:**Save the parameters that you want to set
· **Read back:**read the memorised parameters of the driver
· **Page 2:**empty,Button not enabled

(P 1-1)

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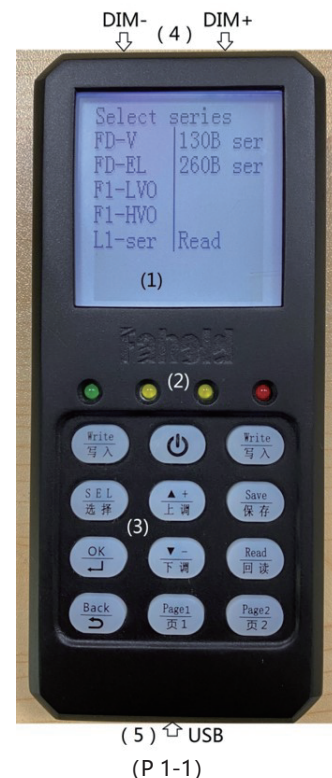
2.Model selection

· When long press the POWER key, 4 indicators light up. And then enter menu interface to choose driver series as the right picture.
· Press "Up" or "Down" key to select driver series that you need to resect.
· Press "OK" to enter the corresponding models of drivers series(all models of drivers are as following)
· Press Up or Down to select a specific model
· Press OK to confirm the model and enter interface of specific set of the model.

· **FD-V:** V-series models
· **FD-EL:** EL series models
· **F1-LVO:** F1 series low voltage models
· **F1-HVO:** F1 series high voltage models
· **L1 ser:** L1 series models
· **130B ser:** non-isolated 130V series
· **260B ser:** non-isolated 260V series
· **Read:** Read-back mode
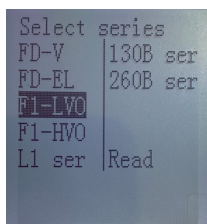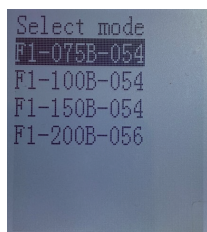
(P 2-1)   (P 2-2)

3.Set parameters

• Entering interface of the setting , press"Select"to select different parameter terms
• Press"Up"or "Down"to adjust the value of the selected item. When the value exceeds the value limit, the value remains the same.
• Press"Save"to save the current setting. No need to reset all the value next time.
• **MOD:** Working mode; CC: Constant current mode; CV: Constant voltage mode
• **I:** to adjust output current
• **V:** to adjust output voltage
• **P:** current Power. It calculates the power value based on voltage and current value set and prompts whether under over rated power status.
• **OFF:** The Dim OFF breakpoint / the voltage of DIM signal to turn off the light
• **ON:** The Dim ON breakpoint / the voltage of DIM signal to turn on the light
• **Sig:** Selection for Dimming type of driver, ''+10V'' for 3-in-1 DIM driver, ''dali'' for DALI DIM driver.
• **SOF:** duration of soft start：t=SOF*0.128 s
• **CMP:** dimming compensation. Suggest to use the default value.
• **min:** minimum dimming percentage
• **LON:** photosensor ON value(LUX). When the environment lux reach this value, the light will be turned on. when the value is 0, photosensor function will be turned off
• **LON:** photosensor OFF value(LUX). When the environment lux reach this value, the light will be turned off. when the value is 0, photosensor function will be turned off. The value of LOF should be always higher than the value of LON to avoid logic errors
• **tim:** Timer dimming function. Timer dimming function must be set to "OFF" when this function is not used, otherwise it'll affect the output current status.
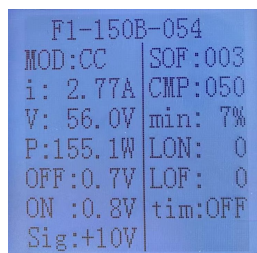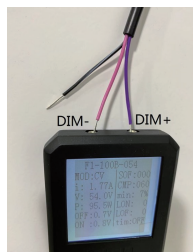
(P 3-1)   (P 6-1)

4.Time control function

• When "tim" is "ON" (P 4-1), press "page 1" to enter the timer control setting interface (P 4-2).
• On the timer control setting interface, press "Select" to select the time period and brightness percentage for adjustment. The time period can be set up to a maximum of 7 parts within maximum of 12 hours. The bright ness can be set up to 10-100%.
• If less than 7 periods are used (for example, only 3 periods are used), unused period use the default value or set the brightness to 10%
• After setting the time control parameters, press "Save". And then press "Back" to return to the electrical parameter interface. In this interface, press "Write" to programme the led driver.   's timer dimming function
• The actual running cycle duration of the led driver is 24 hours. Start time counting at 0H when led driver is powered on. If powered off or restarted led driver, the time counting will start at 0 hours again.
• When the time control of driver runs to unreasonable logic, the output current will be uniformly reduced to 10%. and then continue run a full 24H cycle, then Dim to 0% and restart a new cycle.
• It should be noted that the cycle is 24H but with slight deviation, the time error will gradually accumulate if the power is not cut off for several weeks or months, leading to greater deviation.
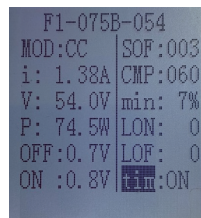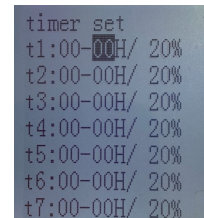
(P 4-1)   (P 4-2)

5.Read

• On the main menu interface, select "Read" (P 5-1) and press "OK" to enter the "read" interface (P 5-2)
• On the "read" interface, press "Read" can load memorized parameters in the driver.
• If the read back is successful, two yellow lights are on and sound once. If the read back fails, the red light is on and sound three times, and all data value show 0.
• When the Read Back data shows "Tim" as "ON", press "page 1" to display the memorized timer control data (P 5-3), press "Back" to return to the "Read" interface.
• The "Read" interface can only display the data from the driver memory and any other operations can't be operated.
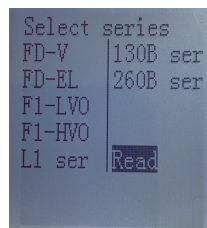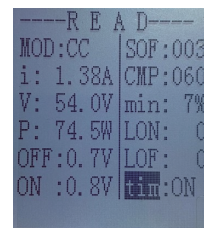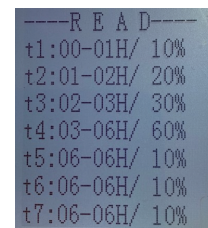
(P 5-1)   (P 5-2)   (P 5-3)

6.Notices

• Signal wires need to be properly connected (P 6-1).
• The programmer's signal has polarity difference. If the DIM wires connected incorrectly, programmer will indicate failure.
• The operational object (led driver) must be powered off on AC wire. When the led driver is powered on, the parameters cannot be set up and the programmer will indicate failure.
• Do not connect the Signal port of programmer to any other device. Otherwise the programmer may be burned out.