KMK 118

DEVICE PAIRING, FIRMWARE UPDATE AND COMMAND MODE TEST

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SMART Bluetooth Optical Probe

AUTO Protocol Detection

1. DEVICE PAIRING

Enable Bluetooth feature of your PC. Then push the power button of KMK118 to power up your device. The power button is at the left top of the probe. From the Bluetooth devices option in your computer, click «Add a Device» and proceed according to the instructions on-screen.

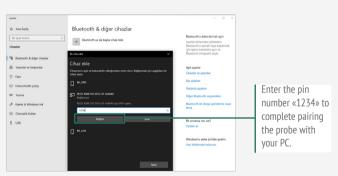


Figure 1



Figure 2

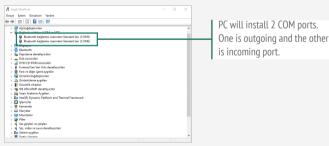


Figure 3

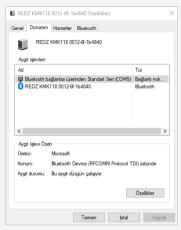


Figure 4

This is the default behavior of all similar Bluetooth devices that uses Serial Port Profile (SPP). In order to communicate with probe, user must use outgoing port. User can see this port in device settings or simply try to see if Bluetooth Probe connected LED is ON or not when trying to open connection.

2. FIRMWARE UPDATE

User can update firmware and use probe with different features. There is no limitation to update from one to another firmware. Users can update probe firmware anytime they need. Special software called abcZ is used to update firmware. Please install and launch the software



When you connect the probe with abcZ software and upgrade process starts the Bluetooth led will be on

Figure 5

Turn the power off of your optical probe before clicking the LOAD FW button to load the selected firmware for your KMK118 optical probe and then repower it. Then press LOAD FW button in 10 seconds time window.

Select the outgoing COM of the probe you paired.

Press the "See COM Ports" shortcut button to see available COM ports on your PC.

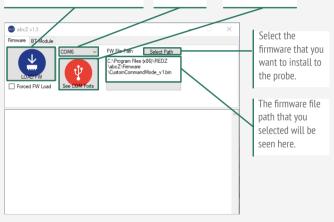


Figure 6

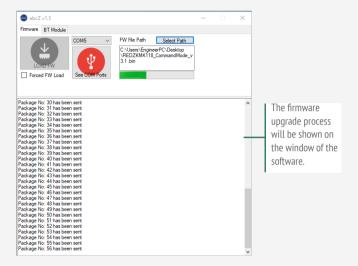


Figure 7

The start and end of the update process can be monitored from the software window. After this process the probe will restart itself.

3. COMMAND MODE TEST

User can test Command mode of the probe with a terminal program. In this example a free software called "Real Term" has been used. Once the firmware is installed user can Turn OFF and On the power of Bluetooth probe. Then terminal program can be launched.



Bluetooth probe Power is ON.

Figure 8



Figure 9

Then you can communicate with the probe using different commands via terminal program. For example to read battery voltage of the probe user can send following byte Array to probe: 0xFE 0xFE 0x42 0x4C 0x55 0x45 0x30 0x38 0x4E 0x31 **0xA1** 0xFF

Probe will answer with battery voltage in mV.

Command byte. Other bytes are fixed and do not change. To query the battery voltage, the command byte should be 0xA1.







Figure 10

In order to send command, click Send Numbers.