SEAHU SH017
QUICK START MANUAL

Seahu 017 PiToDIN (RaspbeeryPI To DIN)

Description:

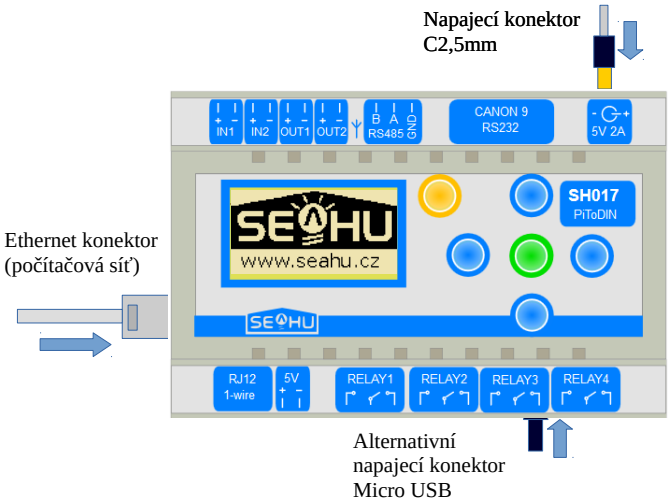
PLC computer based on raspberryPI on DIN case, deployment for easy create home automation. Included monochrome display witch 5 buttons, rassperryPi B+ v3 and base board witch 4x relay, RS232, RS485, 2x optical isolated output, 2x optical isolated input, buzzer, real time witch battery and 5V one wire interface. DIN case 6 module width. Software run on popular operating system for raspberry PI – raspbian (clon of Debian - Linux distribution), therefore you may use any program for those distribution not only pre installed software. This module have two pre installed automation system Domoticz and Rex controls. Domoticz is user friendly automation system mainly for home use. Rex controls system is more complex system for generic automation (home and industry).

Plug power and get IP address

First step is get IP address and other setting doing via web. You can connect device via Ethernet cable or Wi-Fi. Next manual assume that, your network have dhcp server, other way you must configure IP manually (not in this manual).

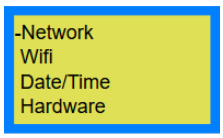
Plug power

Plug power connector to module. Recommended is use adapter 5V min. 2A with C 2,5mm connector (alternative microusb connector plugged directly into raspberry PI mini PC). And plug Ethernet cable. Start system is finished after beep and draw seahu logo on display.

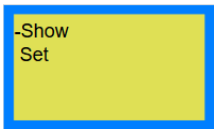


Get IP from Ethernet cable connection to network

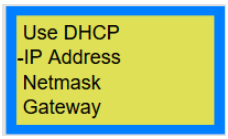
1. Plug power connector and Ethernet cable to module and wait to finish start system.
2. Press any key for view menu on LCD display and search IP address by example below.



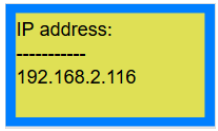
Click OK



Click OK

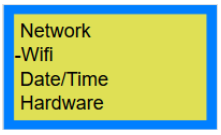


Click DOWN, then OK

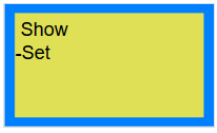


Get IP from Wi-Fi connection to network

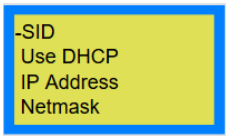
1. Plug power connector and Ethernet cable to module and wait to finish start system.
2. Set Wi-Fi connection
   Press any key for view menu on LCD and follow next step:



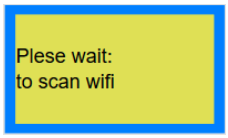
Select Wi-Fi



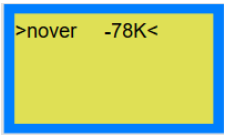
Select Set



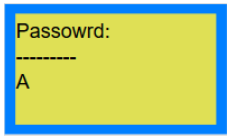
Select SID



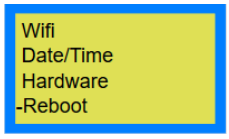
Wait



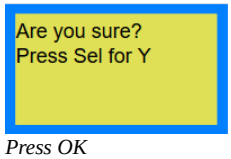
Select your Wi-Fi
number is strength signal
K – means KEY password
F – means free



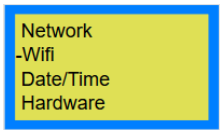
Set password
DOWN,UP select character
LEFT,RIGHT select position
OK set password
ESC cancel setting



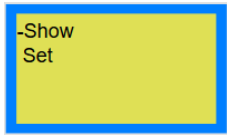
Go back to main menu (2xESC) and select Reboot



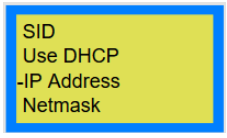
Press OK



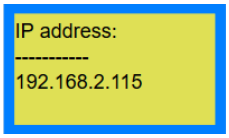
Wait to reboot click any key for menu and Select Wi-Fi



Select Show



Select IP Address



Read IP

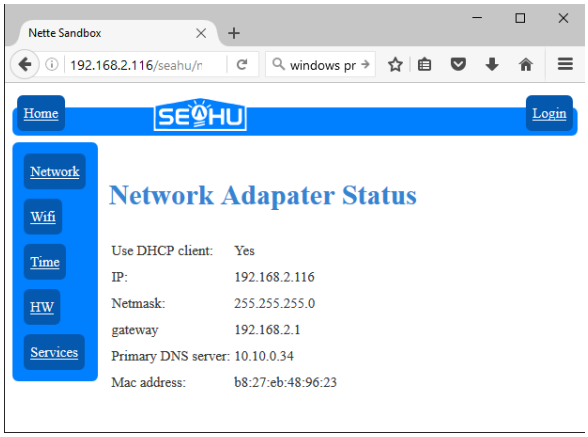
Setting via web

Start web browser and into address line type IP address your SH017. Via web you can easy edit network (Wi-Fi) setting, set time and time zone, look actually status of device (eventually change), reset, change password and select type of automation system. Some task need by log-in. Default Log-in password is: raspberry . Is strongly recommended this password change. In case of lost password, the module can be reset to original state, by pressing the ESC key during start-up device.

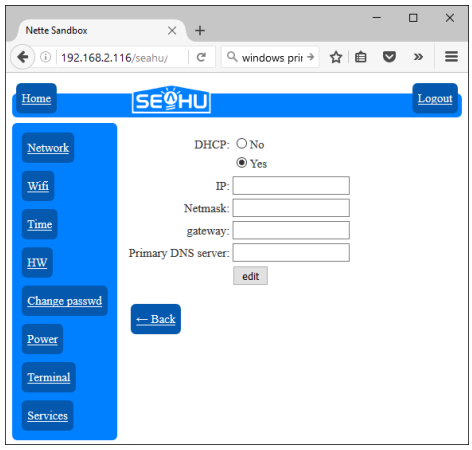
Home page:

Default not running services.

Network setting:

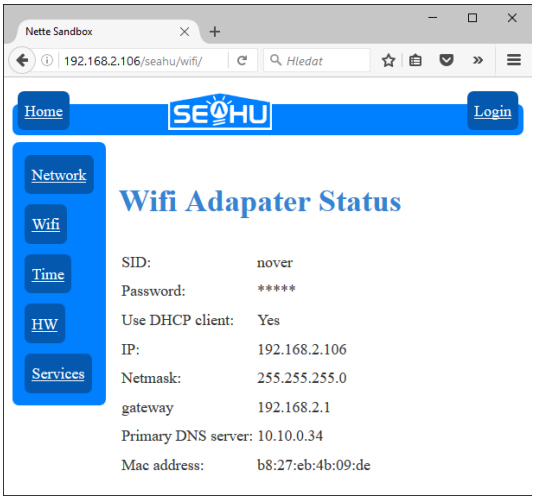


View status

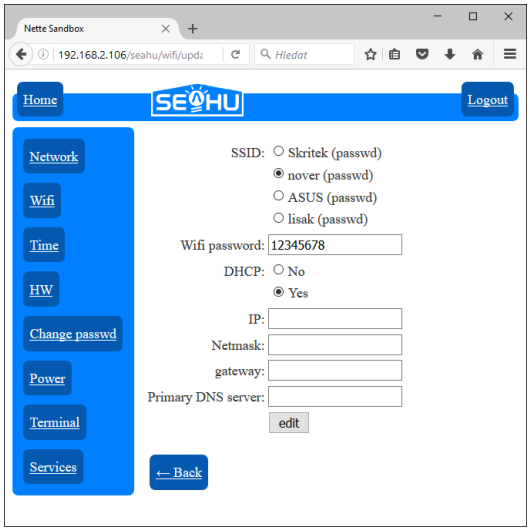


Set network configure

Wi-Fi setting:

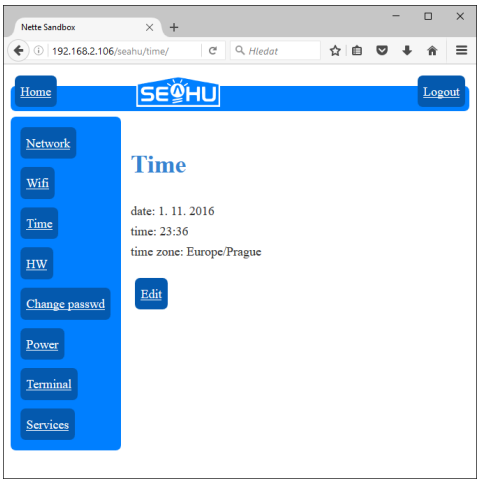


View Wi-Fi status

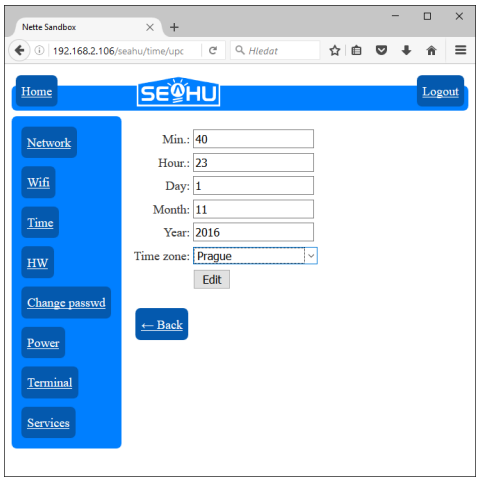


Set Wi-Fi configure.
(view this page may take some time because scan available Wi-Fi network)

Time setting:



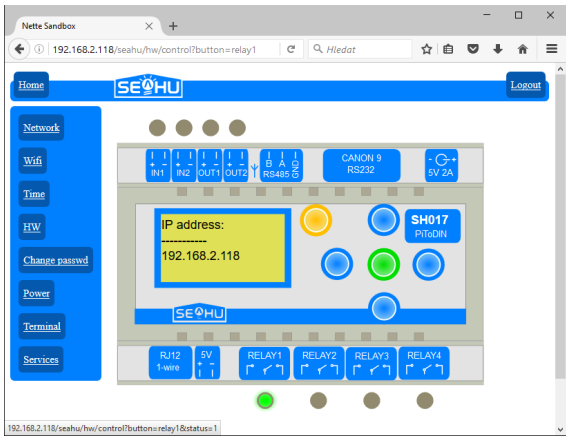
View time status



Set time. If available internet time get from internet, do not need setting. Important is only select time zone.

View and control hardware status:

View actual status. Display only text and ignore inversion text.

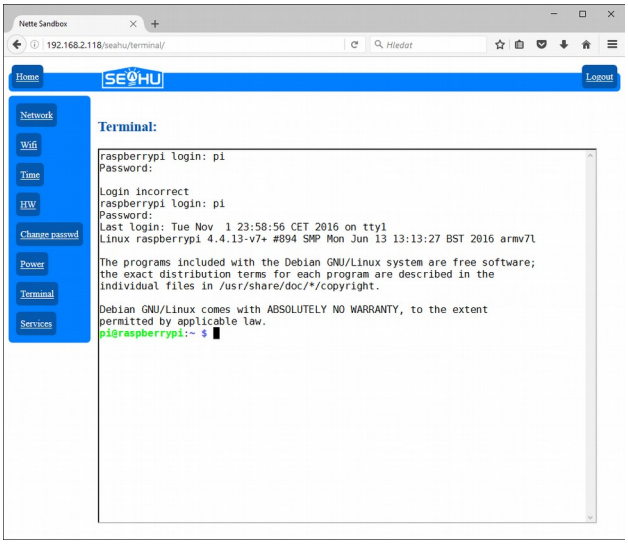


Control relay or output and press buttons. Be careful, if run another service that control this relay or output manually intervention may confuse this service.

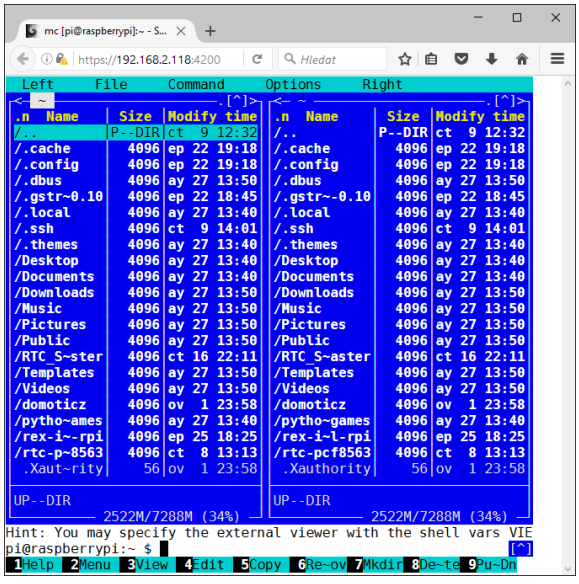
PS: Content of display view only text without resolution inversion text and background.

TERMINAL

Button TERMINAL is available only for log-in users. Terminal use ssl connection with self sign certification who is not for modern web browsers trustworthy. If you want use this terminal, you must add security exception into your web browser. Terminal my be also run as separate web on address: https://your_IP:4200 . Login is: pi default password: raspberry or yours changed password. Another way connect to terminal is use program ssh in Linux or program putty on Windows.



Example terminal



Terminal as separate web page

Service setting

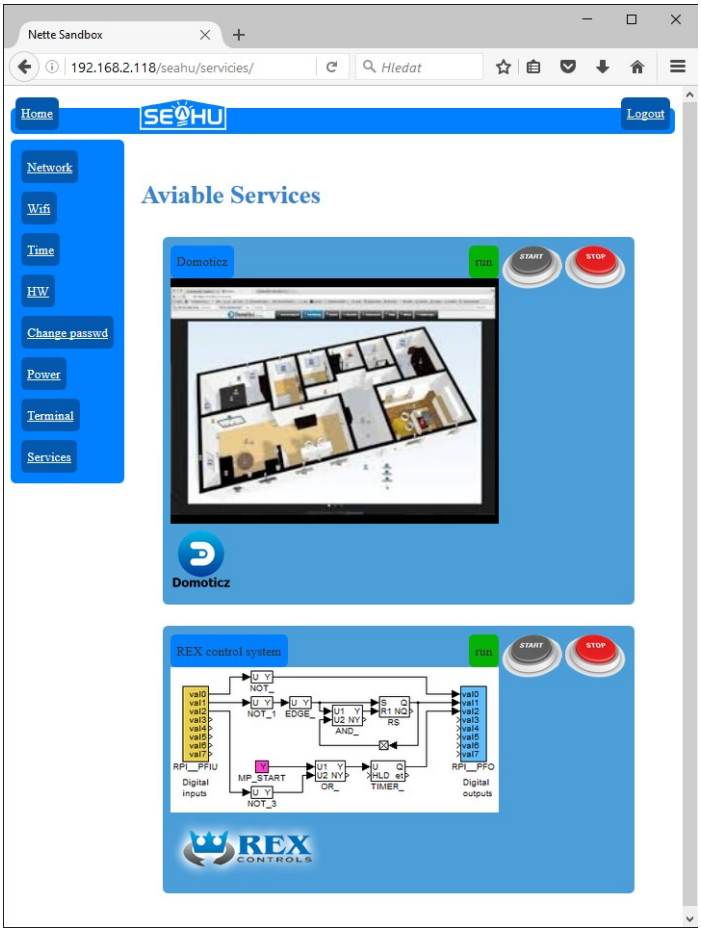
On this page you can select automation service who you can use. Actually is supported two services. If you log-in than can stop or start service. Click to illustration image of service for redirect to web page this service. You can also install any other automation system, bat it is not easy.

Domoticz

Easy open source system. Ideal for home automation. This system has easy configuration, who can handle everyone (bat strongly recommended read min. quick manual).

REX controls

Complex automation system, suitable for bigger or industry automation. It is not open-source, for fully use must bay licence on http://rexcontrols.com . Otherwise this system running in demo. Demo run only two hours, for next rum must be restart.



More information:

Next manual select by your preferred automation system.

Eventually go:

- web raspberrypi project: https://www.raspberrypi.org/
- web domoticz project: http://www.domoticz.com/
- web Rex controls: https://www.rexcontrols.com/
- or: http://www.seahu.cz

Writer:

Ing. Ondřej Lyčka v november 2016

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