

ALTERUS IoT module

www.alterus.org



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1. General description

ALTERUS IoT module is WIFI add-on for ALTERUS organ computer. It enables remote overview and control of the organ and stops. The idea behind is possibility to control Alterus from any smart device via web browser.

There are 3 main screens:

- Alterus Main
 - o Displays Alterus sequencer state (bank, combination, status icons ...)
 - o Enables controlling the sequencer (i.e. next, prev buttons, selecting combination ...)
- Alterus Stops
 - o Displays all stops in a table
 - o Overview over stops state (activated are blue)
 - o Enabling or disabling of stops remotely
- Alterus Keys
 - o Tuning help in case, that notes are controlled by magnets
 - o Can play one or more tones simultaneously
 - o Can jump +/-1, +/-2 or +/- octave

ALTERUS IoT MODULE FUNCTIONS IN SHORT

- Displaying ALTERUS main window with bank and combination number
- Previous and Next buttons, +10 and -10
- Bank, Combination in Reset button
- Whole numeric keypad
- Status icons
- Direct stops overview and changing
- Organ tuning (with KEY modules only)

2. Technical Data

Parameter	Value	Unit
Power supply voltage	4.5 – 5.5	VDC
Wifi frequency	2.4	GHz
Communication with ALTERUS computer	CAN-BUS	
Router type	User depends, check router's documentation for additional information	

3. Instructions for safe use and maintenance

Safe use

- This system must be integrated into a system by a proper qualified person
- All modules contain no end-user servicable parts and must not be modified
- All operations must be performed with main power disconnected

Maintenance

- There is no need for special maintenance for this device

4. Basic operating

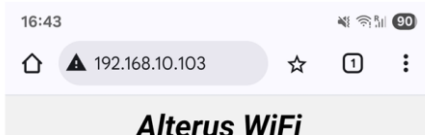
After organ is switched on and power is applied to the system, Alterus display shows IoT module's IP address, on which it is accessible via web browser from any smart device (computer, tablet, phone).

To access it, connect to Alterus Wifi and then enter displayed IP into web browser. Main page displays.



Example, based on Alterus screen above

1. Open smartphone/tablet WIFI settings
2. Connect to Alterus_wifi wireless network (using password on router sticker)
 - (confirm, that there's no Internet access available, if device requests)
3. Open web browser and enter displayed address in the website bar (192.168.5.79)



- ***Mind, that dots (.) must be used instead of colon (:)*** between numbers

4. Alterus MAIN page will load

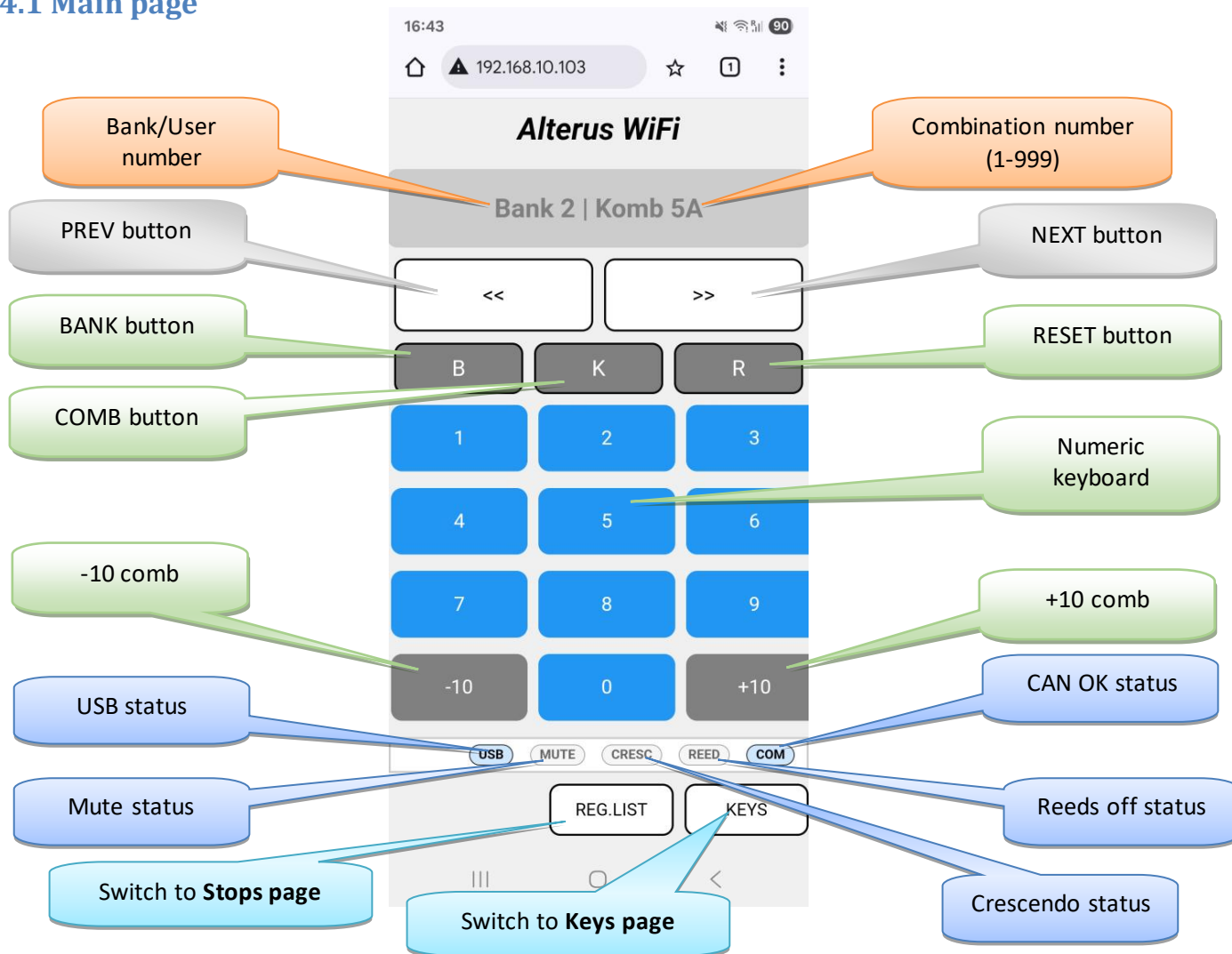
Alterus IoT has 3 different landing pages:

- **MAIN** page for basic Alterus operating
- **STOPS** page for individual stops controlling
- **KEYS** page for playing notes when tuning (only if Alterus Keys is used to control tone magnets)



In case that router was provided with installation, check network data on router sticker.

4.1 Main page



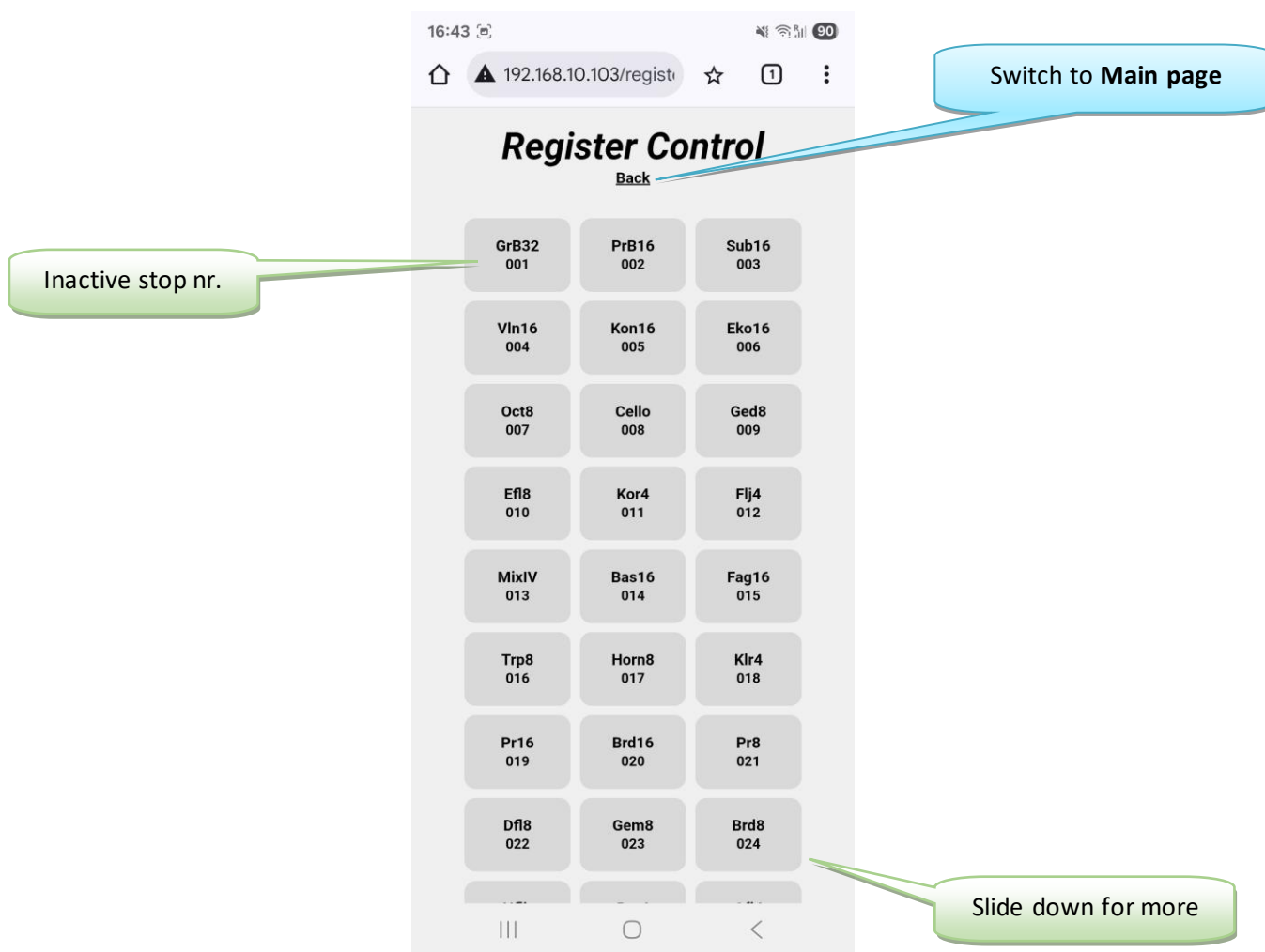
4.2 Stops page

Stops page displays all stops in the system (up to 128) and enables controlling it. The page adjusts dynamically; i.e. on mobile phone there will be displayed less columns. You can also rotate the device to landscape mode if required.

Stops status is displayed with color: blue means, that stop is active where gray means, that the stop is not active.

Stops status updates on each change as well as every 5 seconds, however approx. 0,5 s time is required after change is made for the stop color to change. This means that after you press the button on screen, stop will change, but its color will need some time (<1 s) to refresh to a new state. This is done intentionally to speed up the response time (not to wait for confirmation) when pressing several stops in a short sequence.

Pressing »Back« button returns to »Main page«.



4.3 Keys Page

Keys page is only useful, if Alterus KEY modules controls also tone magnets (not only stop magnets). Using it, we can remotely activate tone magnet(s) and change them during tuning.

You can press one or more keys and corresponding tone magnets will be activated.

You can switch between octaves using left and right arrow key bellow the keyboard.

If »Hold key« checkbox is activated, note will be active as long as you don't press it again. If »Hold key« checkbox is deactivated, note is only activated as long as the button is pressed.

For tuning you may use buttons +/-1, +/-2 and +/-12 (octave) to quick change activated note(s).

Pressing »Back« button returns to »Main page«.

