

Overview

The BUSE BS-310+BS-100 is a bus destination board system consisting of a driver control unit (BS-100) and three external display boards. This manual explains how to operate the system, enter line codes, and manage power.

System Components

BS-100 Driver Control Unit

The keypad mounted in the cab. Used to enter line codes and control the system.

MainBoard (External — Front)

The large front-facing display. Shows the line number, destination, and a static subtext (via text) beneath the destination.

SecBoard (External — Side/Rear)

The secondary external display. Shows the line number, destination, and cycles through the list of stops the bus serves.

ThiBoard (External — Number Only)

A smaller display showing only the line number.

IntBoard (Interior)

The passenger-facing interior display. Cycles through the current time, the destination, and each stop in sequence.



Keypad Buttons

Button	Function
0 – 9	Enter digits of the line code
CONFIRM	Confirm the entered code and apply the line
X	Power off all displays
“TICKET”	Power on the system

How to Use

Powering On

Press the “**TICKET**” button to power the system on. The driver display will show **READY**.

Entering a Line Code

1. Press the digit buttons to type in the line code (up to 6 digits).
2. The code you are typing appears live on the driver display.
3. Press **CONFIRM (CHECKMARK)** to apply the line.

If the code is recognised, all boards will update immediately:

- **MainBoard** shows the line number, destination, and via subtext.
- **SecBoard** shows the line number, destination, and begins cycling through stops every 3 seconds.
- **ThiBoard** shows the line number only.
- **IntBoard** begins cycling: current time (4s) → destination (4s) → each stop (2.5s each), then repeats.

If the code is **not recognised**, the driver display will show ERR: [code] and the MainBoard will show UNKNOWN.

Powering Off

Press the **X** button. All displays will go blank and the system will stop.

Changing the Line

Simply press the digit buttons to type a new code, then press **CONFIRM**. You do not need to power off first.

Adding Lines (For Administrators)

Lines are defined in the lineData table inside the Script. Each entry follows this format:

```
[ "CODE" ] = {  
    num = "LINE NUMBER",  
    dest = "DESTINATION",  
    via = "subtext shown on MainBoard",  
    stops = {"Stop 1", "Stop 2", "Stop 3", "DESTINATION"},  
},
```

Example:

```
[ "1234" ] = {  
    num = "607",  
    dest = "CITY",  
    via = "via Central",  
    stops = {"Station A", "Market St", "Central Park", "City Hall", "CITY"},  
},
```

Add as many entries as needed. Codes can be any combination of digits.

Display Behaviour Summary

Display	What it shows
Driver (Line)	Code being typed / confirmed line number
Driver (VehicleState)	The entered code after confirmation
MainBoard	Line number + destination + static via subtext
SecBoard	Line number + destination + stops cycling every 3s
ThiBoard	Line number only
IntBoard	Time → destination → stops cycling, then repeats

BUSE BS-310+BS-100 — Made by ODS (Olomoucká dopravní strojní)

