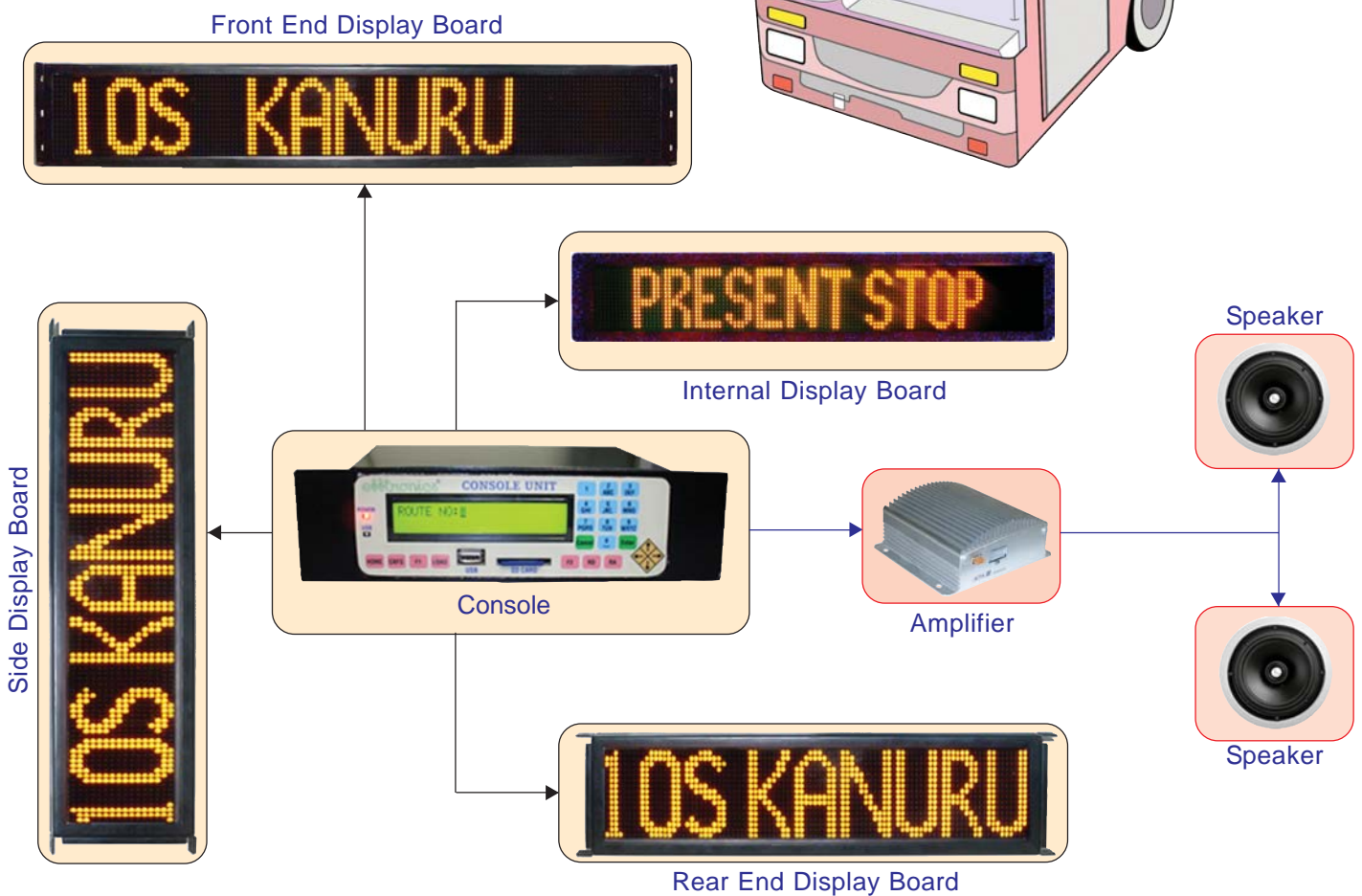
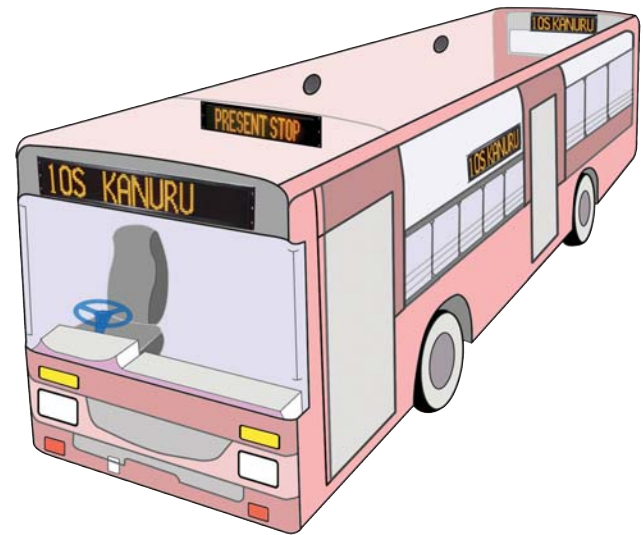


Bus Destination Display System is a single system control providing audio and visual information to passengers.

COMPONENTS

- ❖ Front, Side, Rear & Inside Displays
- ❖ Console unit
- ❖ Audio System



FEATURES

- ❖ Capable of storing upto 150 routes with 150 stops in each route.
- ❖ GPS synchronization.
- ❖ Synchronized Audio and Visual information inside bus.
- ❖ Facility to display crew details.
- ❖ Multi Lingual display.
- ❖ Automatic display Intensity control.
- ❖ User friendly software to download / modify / create route data in the console through PC .
- ❖ User interface with LCD and keyboard in Console Unit for selecting the route name, stop name and announcement.

BUS DESTINATION DISPLAY SYSTEMS

SPECIFICATIONS

1. Display Boards

Parameter	Front display board	Side & Rear display board	Internal display board
LED Type	SMD	SMD	Dot matrix
LED color	Amber	Amber	Amber
LED wave length	586 nm - 595 nm	586 nm - 595 nm	586 nm - 595 nm
Visible distance	50 meters	50 meters	50 meters
Viewing angle	120° horizontal	120° horizontal	----
LED Pitch (Horizontal x Vertical)	13.4mm x 13mm	13.4mm x 10mm	7.62mm x 7.62mm
Board matrix	16 x 140	16 x 96	16 x 112
Character height	Route Number : 200mm Destination Name : 67 - 200mm (based on length)	Route Number : 200mm Destination Name : 67 - 200mm (based on length)	31 - 114 mm depending on length of stop name
Display Language	English and Regional	English and Regional	English and Regional
Display Area	1820mm x 200mm	960mm x 200mm	853mm x 114mm
Memory capacity	256KBytes of flash memory	256KBytes of flash memory	256KBytes of flash memory
External dimensions	1880.5mm x 240mm x 38.1mm	1018mm x 240mm x 38.1mm	893mm x 154mm x 48mm
Communication	RS485	RS485	RS485
Power Supply	Isolated DC-DC	Isolated DC-DC	Isolated DC-DC
Power consumption	5.4A (Typical) at 24V DC	2A (Typical) at 24V DC	2A (Typical) at 24V DC
Vibration	Shock Test for 10g – 3 axis Vibration Test for 3g – 3 axis	Shock Test for 10g – 3 axis Vibration Test for 3g – 3 axis	Shock Test for 10g – 3 axis Vibration Test for 3g – 3 axis
Protection class	IP 55	IP 55	IP 55
Temperature range	-20° C to 70° C	-20° C to 70° C	-20° C to 70° C

2. Console unit

Memory capacity	2GBytes Memory Card for voice files and 4MBytes for route information
Display Type	2 x 24 Character LCD
Keyboard	Alphanumeric along with functional keys
External dimensions	178mm x 61mm x 106mm
Communication	USB for PC interface, RS485 for display systems, RS232 for external GPS.
Indications	Power and USB access
Power Supply	Isolated DC-DC
Operating voltage	18V - 36V DC
Power consumption	0.4A (Typical) at 24V DC
Vibration	Shock Test for 10g – 3 axis, Vibration Test for 3g – 3 axis
Protection class	IP 65
Temperature range	-10° C to 65° C

3. Audio amplifier

Make	ACTIA
Model No	VB2020R
Power Supply	24V +/-20%
Max Power Output	2x20W R.M.S
Output Impedance	4 Ohms
Dimensions	160mm x 145mm x63mm

4. Speakers

Power Output	10W
Impedance	4 Ohms
Resonance Frequency	160Hz ±20%
Dimension	102mm x 102mm