

## BUS STATION DISPLAY: BD21691

### A) DIMENSIONS:

Display Size	985 x 290 x 53 mm
Display Area	911 x 212 mm
Character Height	205 mm

### B) LED PARAMETERS:

Type of LED	Oval, 4.3 x 5.1mm dia. Diffused lens.
Color	Amber
Wavelength	591 to 595 nm Dominant Wavelength as per AIS-012 Std.
Intensity	Non-multiplexed design with intensity more than 700 mCd at 20 mA
Viewing angle	120°H / 80°V
UV Resistant	Yes

### C) DISPLAY CHARACTERISTICS:

No. of Sides	Single sided
Pitch	9.5 (H) x 13.4 (V)mm
Intensity of display	In-built light sensor with continuously variable brightness control to enable the display intensity to change based on ambient light conditions.
Viewing distance	50 meters minimum, for single line text in both Day and Night

### D) ELECTRICAL PRAMETERS:

Operating Voltage	Nominal: + 24V DC/+ 12 V DC. Supply Range 9 V to 36 V DC
Power Supply	24 Volt DC, supplied through external 230 AC >DC Converter.
Power Consumption	1 Amp. @ 24V DC
Protection	Reverse Polarity, Over voltage, Cranking voltage, Load Dump. Fuse inside the cabinet for over current.

**E) QUALITY:**

EM/EMC	Test compliance as per – AIS 004 Part 3
Ambient Environment	Operating temperature: -15°C to 80°C
Humidity	95% RH for +15°C/+55°C ,24 Hrs. for 6 cycles in off condition
Vibrations	10g as per AIS 012
Ingress protection	IP 66 as per IS / IEC 60947-1:2004 in conjunction with IS / IEC 60529:2001

**F) STRUCTURE:**

Aluminum Cabinet , Powder Coated finish with toughened glass at front
Weight – 8 kg
Mounting arrangement by roof hanging, wall mounting.
Conformal coated PCBA and ROHS Compliant & with automotive grade components
Power to signs is supplied through bus multiplex wiring system

**G) TECHNICAL SPECIFICATION:**

Displays route and estimated arrival time (ETA).
Display can show customized graphics.
Display in English (2 lines) / Hindi(1 line) / Regional (1 line) Language
Total display height is capable to accommodate two lines in English language and the Individual heights of each line are adjustable to enable one line to be larger/smaller than the second line.
Capability to display public service information
Capability to display special signs like signs for 'PWD enable bus', 'ladies special'.
Capability to show special characters like ( , ' " . ! + - * : ?)
Display in English and local languages using Microsoft fonts via window based software package
The display receives encoded information of route and ETA from the AVLS control Centre through wireless - GPRS communication link set up with Station Server at each bus station.
Displays Bus number and Destination in alphanumeric and in fixed, scrolling and flashing modes, with fixed route number up to 6 characters.
Performance of display does not get affected even if one or more signs get disconnected or malfunction, (including fresh communication from ICU)
Possible to change/choose/select a 'route' remotely over the air from back office and provide current route information to back office through SCU
Back office is able to check, via SCU, the version of firmware loaded on the display.
Able to store Diagnostic trouble codes (DTC) , Parameters identifiers (PID) as per Annex-3 and data retrievable through SCU
Ability to retain the last message displayed in the memory of the sign even in the event of power failure and without the message being reloaded