

ii On-board Information Displays



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International

Inform, Entertain, Advertise
LED LCD TFT On-board Infosystems

ii on-board info displays are designed to make the journey more enjoyable and less stressful for the passenger. In the age of constant information these signs are a small thing that make a big difference to journey satisfaction.

Internal displays can be LED, LCD or TFT flat screen. Layout is very flexible and so can be adjusted to fit what you require.

LCD and LED

ii LCD and LED Internal Displays are used for next stop transfers and general information displays on board trains and buses. The internal signs are operated on the IBIS Intelligent Onboard System which means they are part of an integrated passenger information system along side external signs and audio announcement. This means you are working with one system, making programming and co-ordination easier.

The internal LED and LCD signs are programmed using our Windows based TLP software. ii internal sign systems are also designed to facilitate retrofitting into existing vehicles.

TFT

ii TFT Onboard displays INFOtainment introduce creativity, colour and entertainment to passenger information systems. The capabilities of the TFT system means more imaginative communications with your passengers and as a result; more enjoyable journeys.

Not only are TFT screens more fun as a communication medium they are also clear and easily read because of their high definition resolution.



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ii On-Board - LED Route Information Signs



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Route information signs provide many details about the journey, route, stops and next stop, all on one easy to follow display using LED. Route displays are a graphic way of representing the information so that all passengers can follow it easily.

The graphic display, layout, use of Highbright LED's with automatic brightness adjustment make ii Route Displays easily legible across large viewing distances.

Options for layout, alternating 'Next Stop' and audio gongs are all available. Programming is done simply, using our TLP software.

Specification

Operating Voltage	24V DC (18-32V)
Current Draw	2.2-2.8A depending upon length of text displayed
Display medium	LED's - colours and sizes to optimise display legibility
Housing	Dimensions - 230hx1000lx70d Shape - trapezoidal Finishes - standard black, aerogrey or cream-white
Character Set	Proportional font with upper and lower case letters, numerals and pictograms
"Bus Stopping"	Separate field or alternating with other text
Control System	Route data, stop designations and transfer messages can be downloaded to the sign and then controlled by the IBIS on-board computer. Alternatively, the data can be stored in the vehicles on-board computer and transferred to the route sign as needed.
Maintenance	No regularly scheduled maintenance is required. The LED's have a service life of 80,000 to 100,000 hours.
Dual tone Gong	Triggered whenever the stop designation changes. Volume manually adjustable.

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ii On-Board - LED Next Stop Signs



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ii LED signs have a character height of 48mm providing optimal legibility and clarity even from a distance. Standard sized LED displays allow 20-24 characters in upper and lower case.

ii LED internal systems include automatic brightness adjustment to enhance the sign clarity in all lighting conditions. The LED signs have been designed to enable retrofitting to existing vehicles.

Specification

Operating Voltage	24V DC (18-32V)
Current Draw	1-2 A depending upon the density of the text
LED's	5mm diameter red or yellow Highbright LED's With Automatic Brightness Control
Character Specification	Height up to 48mm Matrix 8x112 dots (20 characters) 8x144 dots (24 characters) Set proportional font with upper and lower case lettering, numerals and pictograms
"Bus Stopping" message	either as alternating message within next stop display or as a separate backlit display
Temperature Range	-25°C to +70°C
Interface	IBIS Intelligent Bus System
Optional features	> separate backlit "Bus stopping" display > time of day display > dual-tone gong sounding to highlight change in the display text or when the bus is stopping
Mating Connectors	2-pin AMP connector for +/- 24V DC 2-pin AMP connector for "Car is Stopping" input 4-pin CPC connector for IBIS data cable

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Versions Available

Ceiling Installation	Weight			Dimensions	
Without "Bus Stopping"	Single sided	20 characters	4kg	770x86x72	107000.00
with "Bus Stopping"	Single-sided	20 characters	5kg	962x86x72	107100.00
Without "Bus Stopping"	Single-sided	24 characters	5kg	962x86x72	107400.00
Without "Bus Stopping"	double-sided	24 characters	7kg	962x86x126	105000.00
Tunnel Installation	Weight			Dimensions	
Without "Bus Stopping"	Single-sided	20 characters	4kg	890x150x74	107200.00
With "Bus Stopping"	Single-sided	20 characters	5kg	1015x150x74	107300.00
Without "Bus Stopping"	Single-sided	24 characters	5kg	1015x150x74	107600.00
With "Bus Stopping"	Single-sided	24 characters	6kg	1200x150x74	1079.01XX
Without "Bus Stopping"	2 lines single-sided	24 characters Each	6kg	910x155x70	2Xstop 109000.00

We reserve the right to alter products and/or their specifications at any time without prior notice.

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ii On-board - LCD Next Stop Signs



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ii LCD signs are high resolution with 26 segments per character and space for 24 characters. A font designed specifically for use on these panels means the text is clear and all upper and lower case letters are used and fully visible. A character height of 42mm, excellent viewing angles and high-contrast characters provide optimal legibilities, even at large distances, such as on an articulated bus.

Options that can be included in the display are

- > alternating 'Bus Stopping' display or separate 'Bus Stopping' backlit area on sign
- > automatic trigger of 'Bus Stopping' by link to bell push
- > dual-tone gong on changes to display
- > wall or ceiling mounted design, or ceiling double-sided display
- > DCF radio controlled clock
- > Housing to match vehicle interior

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Specification

Operating Voltage	24V DC (18-30V)
Current Draws	Sign 1.0A 'Bus Stopping' Display 0.5A
LCD Type	Transflective negative, bright characters on a dark background
Illumination	Backlit by fluorescent tubes

Versions Available

		(Housing Dimensions mm)
Ceiling Installation	Without "Bus Stopping" Display - single sided	970x113x102
	Without "Bus Stopping" Display - double sided	910x155x101
	With 2 "Bus Stopping" Displays - single sided	1100x113x102
	With RHS "Bus Stopping" Display - single sided	1035x113x102
Tunnel Installation	With RHS "Bus Stopping" Display - single sided	1110x150x92
	With 2 "Bus Stopping" Displays - single sided	1175x150x92
Weight	4 kg	
Housing	Aluminium profile Colour to match interior	
Characters Set	minimum of 24 characters of height 42mm in proportional font with upper and lower case	
Font	ii Mosaic font	
Temperature Range	-20°C to +75°C	
Interface	IBIS Intelligent Bus System	
Mating connectors	2-pin AMP connector for +/- 24V DC	
	2-pin AMP connector for "Bus is Stopping" input	
	4-pin CPC connector for IBIS data cable	

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