

ii Flip-dot Displays



indicators
International

*What do you want from your system?
Easy - Flexible - Reliable
STANDARD & OPTIMA FLIP-DOTS*

Indicators offer you the ultimate in flip-dot technology. Both ii STANDARD and ii OPTIMA Flip-dot systems are based on our IBIS Intelligent System. The signs communicate and are programmed via an on-board computer thus giving you greater reliability from an advanced intelligent system.

The dots are octagonal in shape - designed for improved clarity of the finished display. The dots are 10mm or 15mm and coated with EDAFON™ to prevent colour fade or sun-bleaching.

Both systems use the light source because they are robust, shock-resistant and maintenance-free. Additionally, using LED's as opposed to fluorescent tubes, makes it possible to minimise the distance between the display and the windshield of the bus and so greatly increases the viewing angle.

Both Standard and Optima systems are programmed using Windows-based TED Plus software. The software is simple to use and download of data to the buses is via PC card into the console in the driver's cab: programming the Optima system is easy. The IBIS sign-memory has capacity for ten thousand destinations to be stored at a time so space is not a problem.

Operating ii Flip-dot systems couldn't be easier - enter the number into the drivers console and that entry is automatically displayed on all signs and on the console screen.

STANDARD

The Standard Flip-dot system uses LED strips to illuminate the dots. This makes it an effective budget alternative to meet your requirements for a reliable clear electronic display.

OPTIMA

The unique advantage of the OPTIMA system over other dot matrix products is that each individual octagonal dot has an LED focused upon it. This gives you maximum uniform luminescence and a sign which is easier to read. The LEDs are positioned to cast maximum light onto the reflective surface of each dot.



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OPTIMA FLIP-DOTS

OPTIMA DDA COMPLIANT SIZES

		Sight Size(mm)	Housing Dimensions (mm)
FRONT	16 x 98 dots	1554l x 246h	1622l x 340h x 82d
SIDE - text	8 x 84 dots	865l x 80h	982l x 222h x 52d
REAR - number only	14 x 28 dots	444l x 200h	510l x 280h x 77d
(Other sizes available upon request)			

STANDARD DDA COMPLIANT SIZES

		Sight Size(mm)	Housing Dimensions (mm)
FRONT	16 x 98 dots	1496l x 246h	1558l x 330h x 92d
SIDE - text	7 x 84 dots	857l x 73h	978l x 130h x 72d
REAR - number only	16 x 28 dots	429l x 246h	491l x 330h x 92d
(Other sizes available upon request)			

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



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OPTIMA FLIP-DOTS*

Specification

Operating Voltage	24V DC (18-32V)																
Illumination	24V DC (Switched on together with the illumination of the bus. The illumination intensity of the LED's can be regulated manually.)																
Housing	Black velbex coated aluminium or to customer requirements																
Dot Size	10x10mm octagonal or 15x15mm octagonal																
Dot Colour	Traditionally yellow/black - Other colours on request																
Power Requirements	<table><tr><td>Illumination</td><td>Front</td><td>16x98</td><td>typically 1.5A</td></tr><tr><td></td><td>Side</td><td>8x84</td><td>typically 0.6A</td></tr><tr><td></td><td>Rear</td><td>13x28</td><td>typically 0.3A</td></tr><tr><td>Electronics</td><td></td><td></td><td>max. 350 mA</td></tr></table>	Illumination	Front	16x98	typically 1.5A		Side	8x84	typically 0.6A		Rear	13x28	typically 0.3A	Electronics			max. 350 mA
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Electronics			max. 350 mA														
LED operation	LED's are connected to the vehicle lighting circuit and so switch on automatically when the vehicle sidelights are activated																
LED Lifespan	OPTIMA 80,000 - 100,000 hours STANDARD 50,000 hours																
Maintenance of LED's	None. LED's are maintenance-free.																
Weight	20% less than previous systems																
Readability	Better readability because of the high contrast colours and bright illumination. Flip-dot systems uses cyclically repeated texts for greater clarity and ease of reading for those with visual impairment																

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