

ii OPTIMA Flip-dot Displays



indicators International

What do you want from your system?

Easy - Flexible - Reliable

OPTIMA FLIP-DOTS

Optima offers you the ultimate in flip-dot technology. Based on our IBIS Intelligent System the signs communicate and are programmed via an on-board computer. This gives you greater reliability because the signs can 'think' in order to monitor and rectify any problems automatically.

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

The main advantage of Optima 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 LED's are positioned so that they are not visible but cast maximum light onto the reflective yellow face of each dot.

LED's are chosen as the light source because they are robust, shock-resistant, maintenance-free and guarantee a life span of 100,000 hrs (30 years). 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.

The Optima system is 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 the Optima system 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.



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OPTIMA Standard 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)			

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	Illumination	Front 16x98 typically 1.5A Side 8x84 typically 0.6A Rear 13x28 typically 0.3A	
	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	80,000 - 100,000 hours		
Maintenance of LED's	None. LED's are maintenance-free.		
Housing Dimensions	See standard sizes - Slimline unit has reduced housing depth of 45mm		
Weight	20% less than previous systems		
Readability	Better readability because of the high contrast colours and bright illumination. OPTIMA uses cyclically repeated texts for greater clarity and ease of reading for those with visual impairment		

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