



LED Information Display

GMB

GMB series information displays are digital LED information displays specially designed for platforms on railway stations. The full matrix LED displays provide a flexible solution for passenger information systems providing up-to-date information to passengers. Designed without front glass for maximum color reproduction. Various mounting options.



Features

LED Technology

LED Full-Matrix technology allows freely configurable display layout. Full graphical display with fine pixel pitch 2.5 mm perfectly displays text, graphic symbols, images, videos, websites and live broadcasts.

- High brightness display guarantees excellent readability even in direct sunlight.
- Fully graphic display shows public transport information, train and bus departures, general passenger information as well as advertising messages and other multimedia.

Information System

Possibility of making the display as an autonomous display element or as part of larger information system.

- Management by an external master computer makes tracking and controlling easier.
- Power and runtime data are automatically monitored.

Mechanical Design

- Stable frame construction made of aluminium profiles.
- Without front glass for excellent contrast and color reproduction, complete reduction of reflections, better cooling and lower weight.
- Flexible dimensions.
- Ceiling, wall bracket or pole mounting
- Double sided design.
- Possibility to display analogue clock or platform number.
- Maintenance-free design – passive cooling without vents and filters.
- Easy access to all internal modules by sliding out the electronics carrier.

Operation

- The display is designed for reliable usage 24/7 in indoor and outdoor conditions.
- Choose from two types of modes according to displays usage.

Text-to-Speech Module

Specially developed module for visually handicapped persons.

- The module provides the necessary information via synthetic voice output from 8W speakers.

Various Areas of Use



Train Stations



Railway Stations



Metro



LED Technology



Full Color RGB Display



Usage 24/7



Brightness up to 4 500 cd/m²



Management and Monitoring System



Passive Cooling



Option WiFi, LTE or Fiber Optics



Text-To-Speech Module



Suitable for Outdoor Use
IP 55

Technical Parameters

GMB.		25
Module Specifications	pixel pitch [mm]	2.5
	resolution [px]	100 × 100
	size [mm]	250 × 250
	brightness	4 500 cd/m ²
	viewing angle	±70° × ±60°
	frame frequency	50 Hz
	refresh rate	1 920 Hz
	color depth	24 bit
	contrast	3 000:1
	life span	≥ 100 000 hours (70% brightness)
Mechanical Construction	frame	aluminium profiles
	service access	sliding part secured with industrial locks
	cooling	passive cooling
	dimensions [mm]	by screen size, see Indicative Active Area Dimensions Table
	protection degree	IP 55
	max. size of active display area [m] W × H	2.25 × 0.25
	noise level	max. 32 dB
Temperature Management	temperature	-20 to +40 °C
	humidity	10 to 90 % (without condensing)
	max. intensity of solar radiation	1 120 W/m ²
Power	power voltage	100–240 VAC, 50–60 Hz
	max. power consumption	45 W/ module MAX, 15 W/ module AVG
Mounting	ceiling suspension, wall bracket mounting, pole mounting	

Basic Font Set

GMB.25

Name	Standard 5/7	Bold 6/7	Narrow 4/7	Standard 6/10	Narrow 6/12	Arial 9/11	Arial 11/13	Arial 15/17	Arial 17/19	Arial 25/27
Max. character size (including gaps) [px] A × B	6 × 10	7 × 10	5 × 10	7 × 14	7 × 10	8 × 14	12 × 18	16 × 27	18 × 30	26 × 42
Height of capital letter [mm] C	18.8	18.8	18.8	26.3	31.3	28.8	33.8	43.8	48.8	68.8
Readability DIN1450 [m]	8	8	8	12	13	12	14	18	20	28
Readability TSI-PRM [m]	5	5	5	7	8	7	8	11	12	17
Number of character per line (1 module)	16.7	14.3	20.0	14.3	14.3	12.5	8.3	6.3	5.6	3.8
Max. number of rows per module	10.0	10.0	10.0	7.1	10.0	7.1	5.6	3.7	3.3	2.4

Possibility to add font on customer's request.

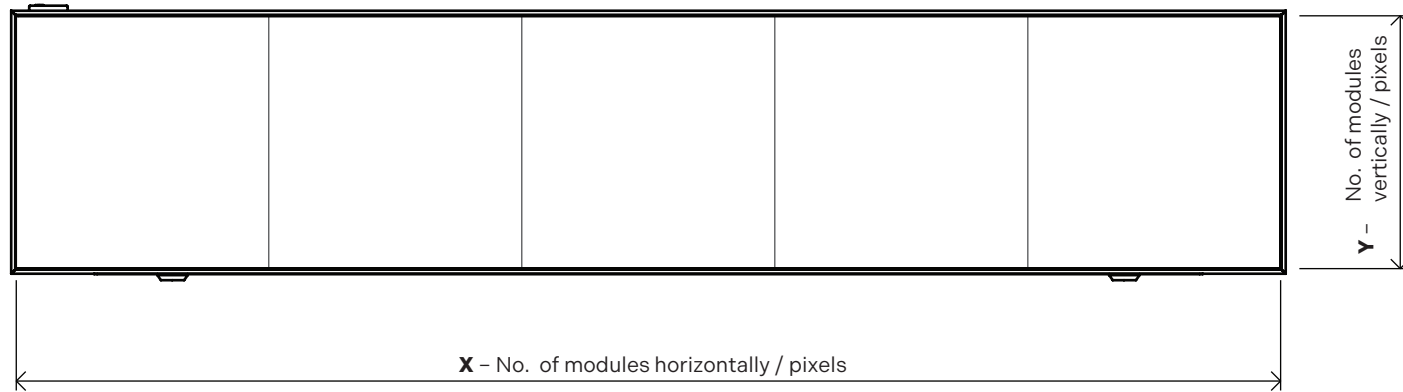


Departure, Öhringen

Indicative Active Area Dimensions Table

GMB.25		X					
Y	1	4	5	6	7	8	9
	100	400	500	600	700	800	900
		1000	1250	1500	1750	2000	2250
		250	250	250	250	250	250

Dimensions are in mm.



Order Reference

1 Model
GMB.25 25

2 Number of Pixels Horizontally
GMB.25 (100 px per module) 400-900

3 Number of Pixels Vertically
GMB.25 (100 px per module) 100

4 Display Color
Full color RGB display RGB

5 Design
Double sided D

6 Mounting
Ceiling suspension S
Pole mounting – "T" type T
Wall bracket mounting B

7 Options
(if more than one option is selected, include the extension code in order indicated by dot)

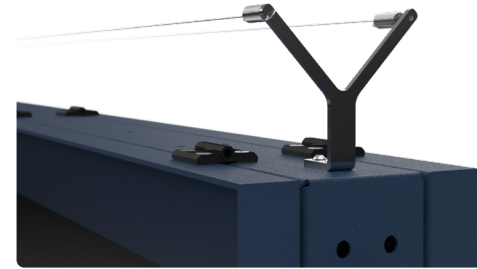
Fixed description (number indicates specific design)	Px
Platform number	Nb
Text-To-Speech module with 8W speaker and receiver for visually handicapped	TTS
Preparation of the camera at the top edge	CT
Preparation for x (max. 3) cameras on the bottom side	Cx
Interface Ethernet	LAN
Interface RS 485	RS485
Interface WiFi	WiFi
Interface LTE	LTE
Interface fiber optics	FO
Preparation for interface fiber optics	FOP

8 Frame Color

Matte black	RAL9005
Light grey	RAL7040
Anthracite	RAL7016
Frame color on request	RALxxxx

Accessory

Protection against birds GMB.BP



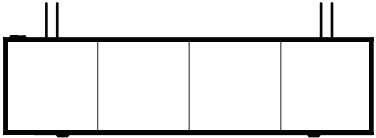
Order example:

GMB.25.500.100.RGB.D.B.TTS.LAN.RAL7016

GMB	1	2	3	4	5	6	7	8
	Model	Number of Pixels Horizontally	Number of Pixels Vertically	Display Color	Design	Mounting	Options	Frame Color

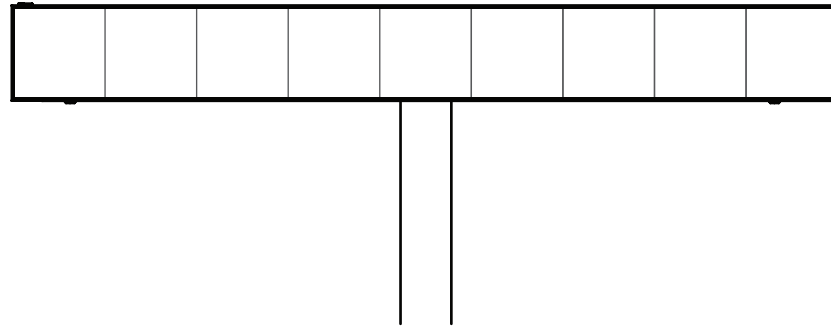
Mounting

Ceiling Suspension



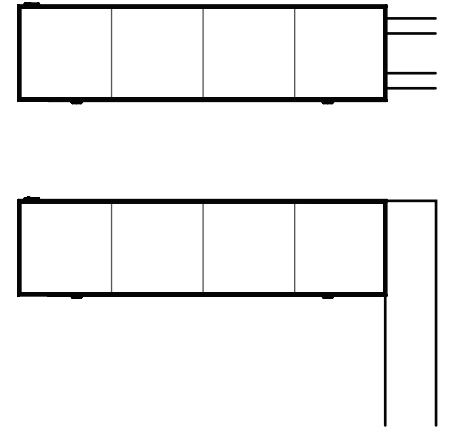
Order reference: **S**

Pole Mounting – "T" Type



Order reference: **T**

Wall Bracket Mounting



Order reference: **B**

Get in Touch



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LE-801407.02-GMB Outdoor LED Full Matrix Information Display-240828

Your Partner Across Time...

We are a traditional Czech company operating in the field of timekeeping and display technology. Our success is evidenced by our continuous growth, both in terms of company size and expansion of our product range or export abroad.

Since 1995 we have been a member of the international holding MOSER-BAER AG and our products under the prestigious MOBATIME brand are exported all over the world.

