

Electronic display systems for industry, advertising, sport and traffic

Brandmaier
INFORMATIVE LEUCHTANZEIGEN



Your partner for visual communication

Informative lighting displays made by Brandmaier for

- communicating frequently changing information
- continuous monitoring of values
- completing texts by optical elements

The contents of the lighting displays can be modified easily and flexibly. Due to its modular design a variable number of digits and lines can be displayed.

Lighting displays made by Brandmaier are for indoor and outdoor use.

They are available in various character sizes and colours.

Lighting displays by Brandmaier are either in LED or LCD technology, in single-side or double-side execution. The complete R&D and production are made in-house at Brandmaier. This guarantees highest quality standards and a reliable and maintenance-free operation.

Possible fields of application:

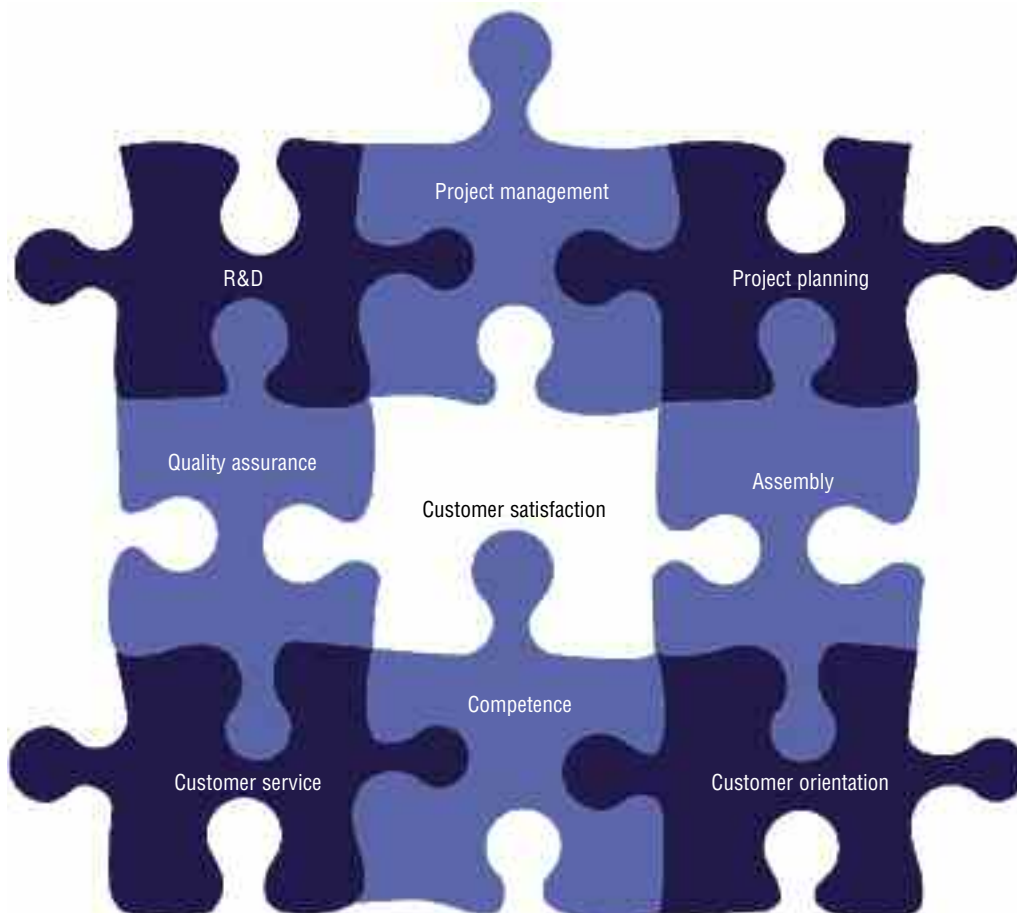
- Numeric displays
- Alphanumeric displays
- Bargraph displays
- Graphic displays
- Information and welcome displays
- Photovoltaic displays
- Displays for parking and traffic
- Time/temperature displays

Customer requests in the focus

From the planning to the development, up to the production: Brandmaier offers you know-how from one source. And that pays off – profit from highest quality and flexibility during the implementation of a project.

We are all ears for your questions, requests and ideas: Not only in the consultation phase, but also in cooperating during the execution of your order and the after-sales service. Customer care and support do not end with the completion of a project.

We are your partner and at your disposal any time.



Numeric displays of the NU series

Numeric displays of the NU series are used for displaying real numeric figures. These can for instance be measured values, times, quantities or numbers.

As an option, units of measurement can be printed as a fixed text on the front panel. The displayed values can be calculated or scaled internally. Brandmaier thus offers the right solution for any application.

Possible fields of application:

- Target value/actual value
- Production data
- Weights
- Speeds
- Temperatures
- Messages from system data
- Accident-free days
- Lifting capacities
- Motivation data
- Environmental data



Alphanumeric displays of the AL series

Alphanumeric displays of the AL series are used wherever plaintext information for a fast communication from man to man or from man to machine is needed.

All alphanumeric displays, also called matrix displays, work with the complete ASCII-code. Due to a great variety of standard modules it is possible to realise almost all character sizes and line lengths. In a homogeneous LED surface not only texts, but also

moving texts and fixed graphics can be displayed.

Possible fields of application:

- Indicators and direction signs
- Schedules
- Departures and arrivals
- Guidance systems
- Information for employees
- Machine data /error messages



Bargraph displays of the BG series



Bargraph displays of the BG series are used for an optical display of data or values which are within fixed limits. This allows a fast quantitative recognition of a value. Filling levels or measured values can for instance be displayed.

Bargraph displays are available in any number, width or colour of bars. Measuring units or a zero to hundred per cent scale can be printed on the front.

Possible fields of application:

- Filling levels
- Water lines
- Bar diagrams
- Measured values



Graphic displays of the MM series



Whenever information is to be visualised graphically as a large format and interconnected to certain parameters, graphic displays of the MM series are used.

As these displays can run as a video, they can also be used as advertising or animation media, e.g. in order to display data from presentation programmes and video clips.

Possible fields of application :

- Departures of ships, buses, trains and planes
- Advertising
- Information from system data
- Andon-Boards
- Machine status in production lines



Information and welcome displays of the PRESTIGE series

The modern design of displays from the PRESTIGE series adapts to any architecture and outfit.

Find the exclusive way of presenting information, messages or advertising in high quality optics.

PRESTIGE displays by Brandmaier are state-of-the-art, maintenance-free and easy to operate.

Texts, moving texts and graphics can be displayed in various heights.

Possible fields of application:

- Banks
- Insurance companies
- Hotels
- Conference centres
- Concert halls
- Airports
- Foyers, entrance halls



Photovoltaic displays of the PV series

Photovoltaic displays of the PV series collect and display data from a photovoltaic, a thermal power or a heat energy system.

The background as well as the text of the display are photo-realistic. The print is UV light and weather resistant. It is fixed at the inner surface of a safety glass panel.

The background and the text are designed individually on the basis of the customer's drafts, logos and pho-

tos. Professional designers work out the optimum layout.

Possible fields of application:

- Photovoltaic plants
- Meteorological data
- Solar thermal systems
- Wind power plants
- Ecological measuring systems



Displays for car park and traffic routing systems of the PT series

The displays of the PT series comprise the spectrum of alphanumeric and special displays such as arrows, stop symbols or “vacant/full” characters. Due to sophisticated control systems and manufacturing technologies it is possible to adapt to existing or new systems.

In addition, customer-specific sym-

bols and characters can be realised. Such displays are used when non-moving or moving traffic has to be guided and informed immediately. The necessary information can be communicated fast to keep the traffic going.

Possible fields of application:

- Car parks
- Access roads to car parks
- Number of vacancies
- Route-indicating signals
- “Vacant/full” displays
- Variable message signs



Time/temperature displays of the CT series

The time/temperature displays of the CT series are used at places with a high customer frequency. They create at the same time a convincing advertising effect.

The use of high end components like LEDs, LCD-glasses, temperature sensors and DCF receivers guarantee high-tech products for highest demands.

Outdoor digital time and temperature displays have to be well decipherable

under all atmospheric conditions and in direct sunlight.

The following values can be displayed in alternating sequences:

- Time
- Date
- Temperature

Possible fields of application:

- Pedestrian zones
- Busy roads
- Factory halls
- Public and commercial buildings



Technology

LED-Displays Optional colours: red, yellow, green, blue, white
Reading angles: 110° horizontal/55° vertical for outdoor displays, unlimited for indoor displays

Pixel distances: 2,54 / 4,7 / 7,62 / 10,0 / 16,0 / 20,0 mm
For outdoor displays: with automatic light intensity regulation depending on the outdoor light

LCD-Displays Optional colours: yellow script on dark background
white script on blue background
Modular technology: transfective (with backlighting of the LCD glasses)
reflective (without backlighting)
Reading angle: 140°
Backlight: LED-technology

Size of characters Standard character sizes of standard modules range from 18 to 320 mm. As these modules can be arranged seamlessly in all directions, all kinds of character sizes can be realised.

The following table can be a guideline for the right choice of your character size.

18 mm	=	3 - 5 m
30 mm	=	5 - 10 m
50 mm	=	10 - 15 m
60 mm	=	13 - 18 m
100 mm	=	25 - 40 m
120 mm	=	40 - 50 m
180 mm	=	60 - 70 m
240 mm	=	80 - 90 m
320 mm	=	100 - 120 m

Temperature range Standard: 0 .. + 70 °C
Extended: -25 .. + 85 °C

Interfaces

- digital (binary, BCD, impulse)
- analogue (0..10V or 0/4..20 mA)
- serial (RS 232, RS 422, RS 485)
- Ethernet (TCP/IP)
- field bus
- data transmission, GSM

Power supply

- 230 VAC
- 110 VAC
- 24 VDC
- others on demand

Housing

Sheet steel:

- for indoor applications
- Safety class IP 54 or higher
- Colour: standard RAL 9011 (as an option all RAL-colours)

Aluminium profile:

- for indoor and outdoor applications
- Safety class IP 54 or higher
- Colour: standard silver anodised (as an option all RAL-colours)

Stainless steel:

- for indoor and outdoor applications
- Safety class IP 54 or higher
- brush-finished or natural



All displays of the NU, AL and BG series can be delivered in explosion proof execution on demand.

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