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**microSYST**  
DISPLAYSYSTEMS

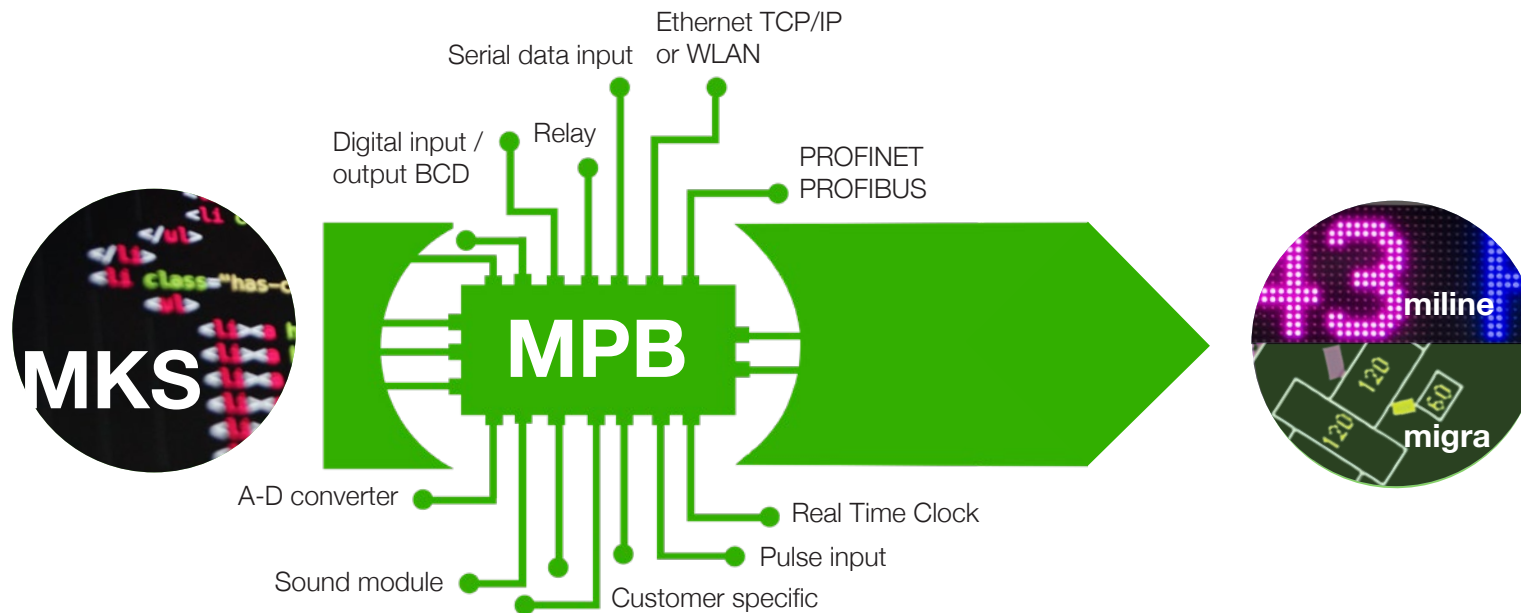
Migra

# Large Format LED Displays

## A modern LED display concept with intelligent activation

With regard to the new display generation called migra and miline, the focus of microSYST is the brilliant LED display with seven display colours and intelligent control electronics.

### The system





### **Modular, flexible and extendable**

The main features of the display systems of the migra and miline series are user-friendliness and flexibility. The internal bus system enables a modular system structure.

Therefore, with regard to the range of features, numerous additional components can be added. To be able to enlarge the features free programming interfaces are available which guarantee a direct adaption to your own requirements.



### **Intelligent control electronics**

The integrated control board is designed for independent calculations, reportings and the output of data and measured values.

The „logic“ of this display system can be factory-set or is programmable on site. Typical applications are, for example, programmable reactions to states and events with direct output to the display or to an interface.



### **Easy data transfer regarding field bus interfaces**

Our display systems can evaluate all data - individually according to your wishes.



### **Flexible adjustment of telegrams and configurable data processing**

The structure of the system is extremely user-friendly and intuitive, but nevertheless complex tasks can be solved easily by subsequent programming.

The system can be easily and quickly adjusted to existing telegrams or to telegrams which cannot be changed by the customer – this happens by the possibility of direct assignment, evaluation and implementation of individual commands and values in the relevant data telegrams.

## **legend**



**microSYST  
configuration software**



**microSYST periphery bus**

# migra - Graphics Compatible Large Format LED Displays

The new migra series combines both the latest display technology and an intelligent compact control system. The modular structure enables individual LED displays for your required application.

## Display and features

The system enables the combination of different elements and interfaces to meet your requirements perfectly. Your required range of features will be planned with our configuration software „MKS“.



### Visualisation of numbers, texts, values and variables

- Fixed, scrolling, flashing texts
- Animated / moving presentations
- Text attributes such as tabulators, colour switching and flashing of text parts
- Freely writable or with predefined variables, e. g. for text fields
- Unicode capable



### Visualisation of pictures and graphics

- BMP, PNG or JPEG files depending on the type
- Lines, rectangles, triangles, circles, bargraphs
- QR code



### Visualisation of stored texts and graphics

- Integrated memory for retrieving stored data
- Display of different changing images (texts, pictures or graphics)
- Layer by layer - flexible insertion of text layers and image layers

## The benefits of the migra series



### Suitable for industrial use indoor and outdoor - up to 7 display colours

The migra large format LED displays are especially designed for industrial use and have high protection classes. Whether indoors or outdoors - with your migra you will be able to display your information, with up to 7 display colours!



### A modular system structure for customised LED displays

Modular software platform, additional components and various LED modules – we produce our LED display according to your requirements - with a suitable software and the perfect size!



### Something special - additional equipment for your migra

Whether special housings, a fixed labelling on the display or an equipment for special applications - we offer the appropriate equipment for your display!

## Interfaces and additional components

A-D  
converter

Digital I/O  
BCD

Ethernet  
TCP/IP or  
WLAN

Pulse input

PROFIBUS  
PROFINET

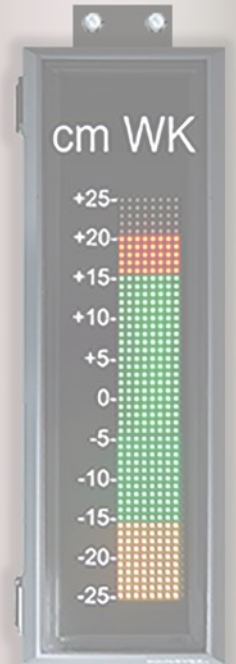
Real Time  
Clock

Serial  
RS232/RS485

Relay

Sound  
module

other  
fieldbuses



## Possible applications



1450 x 850 mm

Truck call-up for visually guided steering at the goods receipt and issue

|                | HE1074 | K3831 | FT450 | KWM12 | HE473 |
|----------------|--------|-------|-------|-------|-------|
| Target         | 750    | 1400  | 350   | 500   | 1000  |
| Actual         | 732    | 1267  | 362   | 476   | 1000  |
| Delivery stat. | ●      | ●     | ●     | ●     | ●     |
| Productivity   | ●      | ●     | ●     | ●     | ●     |

2050 x 1050 mm

Flexible combination of text and symbols for quick status assessment



1080 x 340 mm

Communication in all languages due to unicode



620 x 570 mm

Visualisation of measured values



1080 x 200 mm

Visualisation of stored texts and graphics



380 x 180 mm per side

Multi-page display for use in assembly or assembly applications production islands

## Characteristics

### Display

Multi-colour LED dot matrix display up to 7 colours, high contrast and wide radiation angle for perfect readability

### Display size

Modular structure, wide range of dimensions possible

### Character heights and display view

With 250 mm character height readable from up to 100 meters and more, multi-sided view possible

### Housing

Robust aluminium housing, designed for industrial use and free of maintenance due to fanless operation

### Installation

Flexible fixing elements for wall or ceiling installation as well as flush or mast mounting



## Technical data

### migra



- **Display** LED dot matrix display - resolution per module  
P4 indoor 64 x 16 pixel -  
P8 indoor / outdoor per module 32 x 16 pixel -  
P12 and P16 outdoor per module 16 x 16 pixel -  
pixel pitch 4 mm, 8 mm, 12 mm or 16 mm
- **Display surface**  
per module with 4 mm pixel pitch 260 x 65 mm (indoor)  
per module with 8 mm pixel pitch 490 x 122 mm (indoor)  
per module with 8 mm pixel pitch 244 x 122 mm (indoor / outdoor)  
per module with 12 mm pixel pitch 187 x 187 mm (outdoor)  
per module with 16 mm pixel pitch 264 x 264 mm (outdoor)
- **Character height** from 30 mm (indoor)  
from 50 mm (outdoor)
- **Display colour** seven coloured (red, green, blue, yellow, magenta, cyan, white)  
three coloured (red, green and mixed colour yellowish)
- **Applications** indoor / outdoor (IP54, IP65)
- **Operating temperature** indoor 0 ... +50 °C  
outdoor -20 ... +50 °C  
optional -25 ... +50 °C (with heating)
- **Interfaces** Profibus-DP, Profinet I/O RT, Ethernet TCP/IP, WLAN, A-D converter, digital input, pulse input, quartz clock, serial, Modbus TCP, Modbus RTU, Ethernet IP, EtherCAT, CANopen, DeviceNet, InterBus, USB, BCD, DVI

## Special equipment



Stainless steel housing



Customised fixed labelling



Real glass



Vibration protection



Equipment for extreme hot and cold  
environmental temperatures

**Display equipment according  
to customer's requirements!**

**We develop and produce your  
customised migra display  
according to your requirements!**

**Please contact us!  
[sales@microsynt.de](mailto:sales@microsynt.de)**



