

# migra SC/MC 180 AW

**Graphics and Text  
Compatible Large  
Format LED Display  
for Outdoor Application**



## General

These highly luminous LED dot matrix displays with character heights of up to 180 mm have been specially developed by our engineers for professional outdoor use.

Large reading angles of 110° horizontal and 50° vertical, and at the same time very high light intensity and minimal power consumption, are achieved through the use of high quality LEDs with an optimised design. Luminosity is automatically adapted to prevailing ambient brightness in 100 steps by means of an integrated controller.

They're available as single or multi-colour displays with luminous colours including red, green, yellow, blue and white. It's also possible to combine modules with different colours into a single display.

Thanks to the flexible design with 16 x 16 pixels per module, the displays can be adapted to a great variety of applications. The modules with dimensions of 180 x 180 mm can be arranged within the panel individually, in groups or as a full screen.

The displays are installed into a specially developed aluminium housing system.

Connection to a master controller is implemented via common bus systems (Ethernet, W-LAN, Profinet etc.). Other interfaces which are utilised for industrial communications are also available.

The LED dot matrix displays, developed and manufactured at our own facilities, provide you with top quality products for professional use at very favourable conditions.

## Technical Informations

### General Specification

Display type:	LED dot matrix display
Pixel size:	5,2 x 3,8 mm (oval)
Pitch:	12 mm
Angle of radiation:	110°/50° (horizontal/vertical)
Character height:	76 mm, 112 mm, 160 mm, 180 mm
Resolution:	up to 256 x 16 pixels (larger variants on request)
Display colour:	red, green, yellow, white, blue
Light intensity:	red > 3.100 cd/sqm, green > 3.720 cd/sqm, yellow > 3.000 cd/sqm
Brightness control:	automatically in 100 steps
Operating voltage:	230 V / 50 Hz, 110 V / 60 Hz or 24 VDC ±20 %
View:	single or double-sided
Display:	ASCII character set (20H to 7FH), freely definable special characters
Data input:	either: serial interfaces, binary input, impulse input, Profibus, CAN, ASi, ARCNET, Ethernet, InterBus, A-D Converter, DVI, Modbus Download: RS 232, RS 485 or Ethernet
Housing:	industrial version, powder coated aluminium
Housing colour:	RAL 7016 (anthracite)
Mounting:	articulated arm, angle bracket, mounting frame
Protection:	for outdoor applications (IP64)
Operating temperature:	-25 to +50 °C
Storage temperature:	-25 to +70 °C

**metrix**  
electronics

### Metrix Electronics Limited

Precision Enterprise House, Rankine Road, Daneshill, BASINGSTOKE, RG24 8PP, U.K.  
Tel: +44 (0)1256 864150, Fax: +44 (0)1256 864154  
E-mail: sales@metrix-electronics.com, Web: www.metrix-electronics.com

# migra SC/MC 250 AW

**Graphics and Text  
Compatible Large  
Format LED Display  
for Outdoor Application**



## General

These highly luminous LED dot matrix displays with character heights of up to 250 mm have been specially developed by our engineers for professional outdoor use.

Large reading angles of 110° horizontal and 50° vertical, and at the same time very high light intensity and minimal power consumption, are achieved through the use of high quality LEDs with an optimised design. Luminosity is automatically adapted to prevailing ambient brightness in 100 steps by means of an integrated controller.

They're available as single or multi-colour displays with luminous colours including red, green, yellow, blue and white. It's also possible to combine modules with different colours into a single display.

Thanks to the flexible design with 16 x 16 pixels per module, the displays can be adapted to a great variety of applications. The modules with dimensions of 250 x 250 mm can be arranged within the panel individually, in groups or as a full screen.

The displays are installed into a specially developed aluminium housing system.

Connection to a master controller is implemented via common bus systems (Ethernet, W-LAN, Profinet etc.). Other interfaces which are utilised for industrial communications are also available.

The LED dot matrix displays, developed and manufactured at our own facilities, provide you with top quality products for professional use at very favourable conditions.

## Technical Informations

### General Specification

Display type:	LED dot matrix display
Pixel size:	5,2 x 3,8 mm (oval)
Pitch:	16 mm
Angle of radiation:	110°/50° (horizontal/vertical)
Character height:	100 mm, 148 mm, 212 mm, 250 mm
Resolution:	up to 160 x 32 pixels (larger variants on request)
Display colour:	red, green, yellow, white, blue
Light intensity:	red > 3.100 cd/sqm, green > 3.720 cd/sqm, yellow > 3.000 cd/sqm
Brightness control:	automatically in 100 levels
Operating voltage:	230 V / 50 Hz, 110 V / 60 Hz or 24 VDC ±20 %
View:	single or double-sided
Display:	ASCII character set (20H to 7FH), freely definable special characters
Data input:	either: serial interfaces, binary input, impulse input, Profibus, CAN, ASi, ARCNET, Ethernet, InterBus, A-D Converter, DVI, Modbus Download: RS 232, RS 485 or Ethernet
Housing:	industrial version, powder coated aluminium
Housing colour:	RAL 7016 (anthracite)
Mounting:	articulated arm, angle bracket, mounting frame
Protection:	for outdoor applications (IP64)
Operating temperature:	-25 to +50 °C
Storage temperature:	-25 to +70 °C