

MZE - MULTICOLOUR TEXT DISPLAY WITH ETHERNET INTERFACE

Features

- Maintenance-free LED-display, ready to connect
- Available in two pixel sizes
- 16 colours
- 4 font sizes (at the same time)
- 5 fonts (at the same time)
- 6 presentation types
- Character set according to ISO/IEC-norms
- Up to 8 free definable fields
- Network protocols TCP/IP or UDP/IP
- Integrated clock and date function
- Integrated text storage
- Display of time controlled texts
- Integrated power supply
- Industrial case design
- Case protection class IP 54
- WIBOND standard polishing



Advantages

- Good readability, also at greater distances, through light-intensive display modules
- Long-life display modules
- Multicolour representation
- Optimal display for environmental conditions (e.g. brightness, font size)
- Wide reading angle
- Information displayed in clear text
- Low power input
- All connections accessible from the outside
- Use of the available company network
- Fix or dynamic allocation of the IP-address
- Fast update time
- Enlarged international character set
- Representation of descenders
- Power supply with wide range input

Options

- More sides, more lines
- Custom case design
- Adjustable mounting angle
- Case finish in any RAL-colour
- Case design (aluminium, stainless steel or other materials)
- Case protection class IP 65
- Case design for Ex-area
- Individual mounting possibilities
- Data transfer rate up to 100MBit/s
- Connection over LWL
- Connection over BNC (10Base2)
- Ultra Bright LED's for areas with high ambient light
- Audible output
- Wide temperature range
- Power supply 24VDC \pm 20%

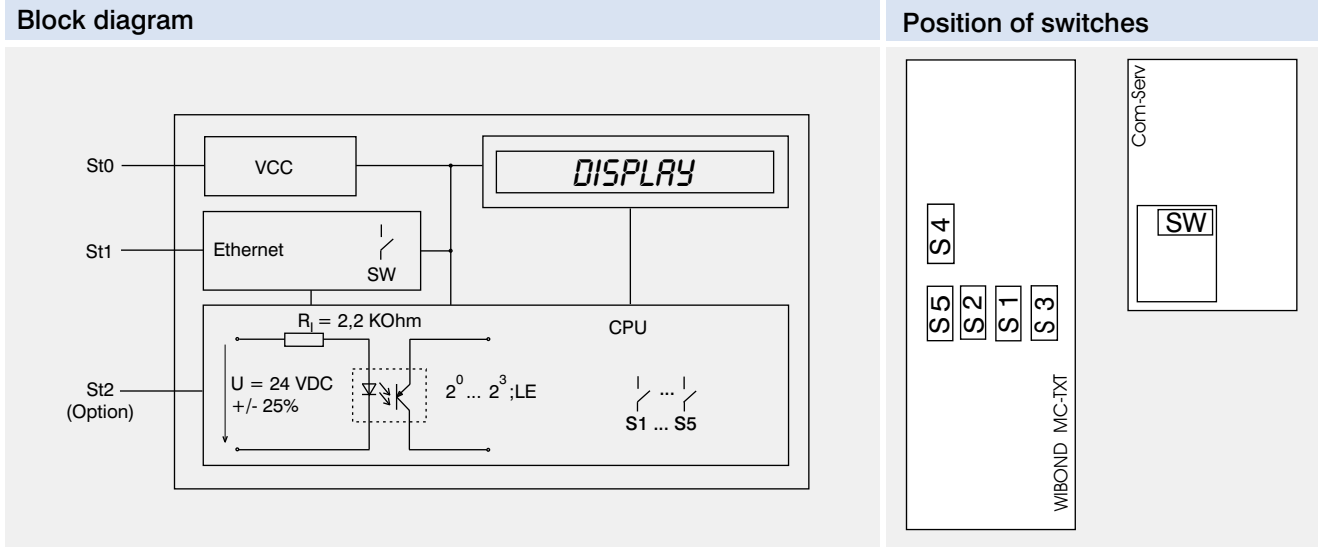
Application examples

- Production data (motivation of employees e.g.. plan-, actual-, trend-representation)
- Controlling and recognition of defects or incidents (e.g. fault message displays, diagnostic system)
- Logistical information (e.g. article numbers, description of goods)
- Traffic information (e.g. car park control system)
- Danger warnings (e.g. fire alarms)
- General information to employees (e.g. place and time of a meeting)
- Visitor information (e.g. welcome messages)
- Call-up systems (e.g. with audible call for next customer)

Technical Data

	Standard Resolution	High Resolution
Digit height (font height)	50, 60, 90, 120 mm	30, 35, 55, 70 mm
Reading distance	approx. 20 m with 50 mm digit height	approx. 10 m with 30 mm digit height
	approx. 25 m with 60 mm digit height	approx. 15 m with 35 mm digit height
	approx. 35 m with 90 mm digit height	approx. 22 m with 55 mm digit height
	approx. 50 m with 120 mm digit height	approx. 30 m with 70 mm digit height
Number of digits at fix character width	max. 42 digits with 50 mm digit height	max. 42 digits with 30 mm digit height
	max. 42 digits with 60 mm digit height	max. 42 digits with 35 mm digit height
	max. 28 digits with 90 mm digit height	max. 28 digits with 55 mm digit height
	max. 21 digits with 120 mm digit height	max. 21 digits with 70 mm digit height
Display area	max. 120 x 1950 mm	max. 70 x 1220 mm
Pixel diameter	5 mm	3 mm
Pixel pitch	7,62 mm	4,76 mm
Resolution	max. 16 x 256 pixels	
Reading angle	\pm 75°	
Colours	16	
Character set	ISO/IEC 8859 with extension ISO/IEC 8859-1	
Operating voltage	100...240VAC / 50...60Hz	
Transfer medium	10BaseT (UTP or STP)	
Network protocols	TCP/IP or UDP/IP	
Data link services	FTP, Telnet, UDP or TCP Sockets (e.g. for Winsock-API)	
IP-address	fix or dynamic allocation (DHCP/BOOTP)	
Data transfer rate	10 Mbit/s	
Text storage	64 kByte (10 years data protection)	
Integrated clock	quartz controlled (1 week power reserve)	
Case design	one- or two sided	
Case material	sheet steel	
Case mounting	wall mounting or suspended	
Case colour	RAL 7015 (slate-gray)	
Case protection class IP 54	DIN EN 60529	
Electrical safety	DIN EN 60950	
Radiated interference	DIN EN 50081	
Interference immunity	DIN EN 50082	
Plexiglas	anti-reflection coated	
Temperature area	0 ... +50 °C	
Relative humidity	0 ... 90 % not condensed	

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Adjustment

Interface S1								S2								SW							
1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8
OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF	ON	ON	OFF	ON	OFF	ON	ON	OFF

Do not change!

Device address S3							Baud rate S4			
1	2	3	4	5	6	Address	1	2	3	Baud
(2 ⁰)	(2 ¹)	(2 ²)	(2 ³)	(2 ⁴)	(2 ⁵)		ON	ON	OFF	9600
OFF	OFF	OFF	OFF	OFF	OFF	"0" (30h)*	Do not change!			
ON	OFF	OFF	OFF	OFF	OFF	"1" (31h)				
OFF	ON	OFF	OFF	OFF	OFF	"2" (32h)				
ON	ON	OFF	OFF	OFF	OFF	"3" (33h)				
.					
ON	ON	ON	ON	ON	ON	"o" (6Fh)				

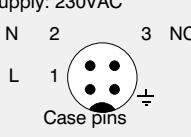
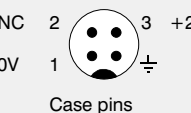
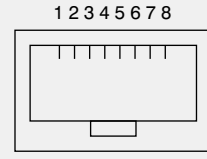
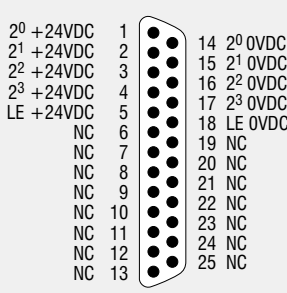
Interface parameter S4						
4	5	6	7	Data bit	Parity	Stop bits
OFF	OFF	OFF	OFF	8	none	1

Do not change!

Answer-echo operation S5		
5	6	7
OFF	ON	ON

answer operation
Do not change!

Connections

Power supply St0	Ethernet interface St1	Parallel interface St2 (option)								
<p>Type of cable: at 230VAC: Connecting cable (e.g LAPP-cable Ölflex CLASSIC 100 3x1,5mm²) at 24VDC: Connecting cable (e.g LAPP-cable Ölflex CLASSIC 100 3x1,5mm²)</p> <p>Power supply: 230VAC</p>  <p>Power supply: 24VDC (option)</p>  <p>Attention: Disconnect plug before opening! Display may only be opened and connected by trained service personnel!</p>	<p>Type of cable: Data cable with Cu - screening braid (e.g. LAPP-cable UNITRONIC EtherLine-H CAT5)</p>  <p>RJ45</p> <table style="width: 100%;"> <tr> <td>1 = Tx+</td> <td>5 = NC</td> </tr> <tr> <td>2 = Tx-</td> <td>6 = Rx-</td> </tr> <tr> <td>3 = Rx+</td> <td>7 = NC</td> </tr> <tr> <td>4 = NC</td> <td>8 = NC</td> </tr> </table>	1 = Tx+	5 = NC	2 = Tx-	6 = Rx-	3 = Rx+	7 = NC	4 = NC	8 = NC	<p>Type of cable: Data cable with Cu-screening braid (e.g. LAPP-cable UNITRONIC 100YC from 0,14mm²) Shield has to be connected to the plug housing!!</p>  <p>Case bushing</p>
1 = Tx+	5 = NC									
2 = Tx-	6 = Rx-									
3 = Rx+	7 = NC									
4 = NC	8 = NC									

* Factory settings (if there is no agreement between customer and WIBOND!)