

# Intelligent Signalling Systems ME 30

## Modular Display Panel



### Application / Features

- Mounting units for MAUELL mosaic systems and control panels
- Display of status information
- Generation of group alarms
- Floating relaying contacts, group alarms
- Compact and modular design
- Economical and expandable
- Inputs with reverse protection
- Functional test of all LEDs
- Message text displayed next to LED signal
- LED test has no effect on group alarm

**Technical characteristics:** see overleaf  
**Available:** now

## Description

The modular display panel indicates status information and generates and relays group alarms. The alarms are signalled by an LED and explained by an appropriate message text next to the LED concerned. This way the operator has at all times a clear overview of all incoming information. The alarms are indicated by long-life LEDs and the message text is printed on a replaceable paper label which is protected by a removable transparent cover. All LEDs can be checked for correct operation through the input 'LED Test'. The dimensions of the complete display panel depends on the number of display elements installed, with one element comprising 2 x 2 indicating units of 48 x 48 mm in total. The display elements are held by a mounting frame whose size can be adjusted. The basic configuration consists of at least one unit with 16 red, green or yellow LEDs indicating 16 status messages (see photo on the front page). The process signals are connected through flat connectors (2.8 mm). The display unit may be expanded by SM 04 blocks allowing the generation of 4 group alarms derived from 16 status signals. The electrical connection to the display unit is of the plug-in type; therefore no wiring is necessary. Each alarm input may be assigned to one or several group alarms by means of jumpers. There is the option to enhance the SM 04 block by the RE 04 block. Again, the electrical connection is made through plug-in connectors, making special wiring unnecessary. The RE 04 element provides four relays with one floating change-over contact each, allowing the transmission of group alarms to peripheral devices. The contacts are led to flat connectors (2.8 mm). The display panel may be expanded by PL 16 expansion units, each displaying 16 status messages. These in turn may be fitted with SM 04 and RE 04 blocks.

## Technical Characteristics

|                     |   |
|---------------------|---|
| Supply voltage      | 24 V DC or 60V DC $\pm$ 20 %                        |
| Current consumption |   |
| LED board           | 7 mA approx. for every alarm input without relaying |
| RE 04 block         | 8 mA approx. for every relay                        |

## Contact characteristics

|                   |   |
|-------------------|---|
| Contact outputs   | 1 change-over contact for every group alarm |
| Switching voltage | 120 V DC, 230 V AC max.                     |
| Switching current | 1 A max.                                    |
| Switching power   | 24 W / 60 VA max.                           |
| Contact life      | 2 x 10 <sup>7</sup> alternations            |

## General conditions

|  |                                       |
|--|---------------------------------------|
| Operating temperature                            | - 10 °C to + 70 °C                    |
| Storage temperature                              | - 20 °C to + 85 °C                    |
| Clearance and creeping distance acc. to VDE 0100 | In compliance with pollution degree 3 |

## Dimensions

|  |   |
|--|---|
| Dimensions (H x W x D) for 16 alarms (without frame) | 96 mm x 96 mm x 70 mm (complete with PL 16 + SM 04 + RE 04) |
| Panel cutout   | 114 mm x 114 mm   |
| Panel cutout for expansion units                     | Height: m x 96 mm + 18 mm, Width: n x 96 mm + 18 mm         |
| Type of connection                                   | 2.8 mm flat connector                                       |

## Ordering Details

| Type  | Designation   | Order reference      |               |
|-------|---|----------------------|---------------|
| PL 16 | Basic requirement<br>4 front modules (for 16 alarms) with removable paper labels and basic mounting frame, without display elements and without electronics<br>m = no. of vertical elements, n = no. of horizontal elements | 30 - 25 - <u>m n</u> |               |
|       | LED board with 16 LEDs and LED test input   |                      |               |
|       | Indicators, green   | 24 V DC              | 30 - 25 - 101 |
|       | Indicators, red   | 24 V DC              | 30 - 25 - 102 |
|       | Indicators, yellow  | 24 V DC              | 30 - 25 - 103 |
|       | Indicators, green   | 60 V DC              | 30 - 25 - 104 |
|       | Indicators, red   | 60 V DC              | 30 - 25 - 105 |
|       | Indicators, yellow  | 60 V DC              | 30 - 25 - 106 |
| SM 04 | Group alarm board for 4 group alarms based on 16 status messages  | 30 - 25 - 107        |               |
| RE 04 | Relay board for the transmission of 4 group alarms to peripheral devices<br>(4 relays, with 1 floating change-over contact each)  |                      |               |
|       |   | 24 V DC              | 30 - 25 - 108 |
|       |   | 60 V DC              | 30 - 25 - 109 |