

# PANEL INDICATORS WITH 1,44" TFT DISPLAY MD22-TFT STANDARDIZED SIGNALS INDICATOR

DATA SHEET

no: KK-W\_MD22-TFT



The MD22-TFT indicators complete MD22 series so far containing signal lamps, LED indicators and buzzers. Main characteristics of all MD22-TFT indicators:

- visualization of the input size or signal on the 1,44" TFT
- assembly in a standard  $\varnothing$  22 hole
- supply voltage – 24V DC (10÷32 V) or 24V AC ( $\pm$ 10%)

#### TECHNICAL DATA:

| Parameter                                                                   | Value                                                                                                 |
|-----------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| <b>Supply voltage</b>                                                       | 24VDC (10÷32V) or 24VAC $\pm$ 10%                                                                     |
| <b>Max. cross-section of connection cables</b>                              | Dy wire and Ly wire - 0.5 mm <sup>2</sup>                                                             |
| <b>Voltage to earth</b>                                                     | 300VAC                                                                                                |
| <b>Basic accuracy</b><br>- MD22-TFT-PCT<br>- MD22-TFT-IU<br>- MD22-TFT-T    | not applicable<br>1 °C+1 digit in the range -100 ÷ 800 °C<br>2 °C+1 digit in the range -200 ÷ -100 °C |
| <b>Safety requirements</b>                                                  | Acc. to PN-EN 61010-1                                                                                 |
| <b>Protection class</b>                                                     | IP 67 (front side)<br>IP 20 (housing and terminals)                                                   |
| <b>Operating temperature</b>                                                | -20÷50°C                                                                                              |
| <b>Power consumption</b>                                                    | Max. 0,5W                                                                                             |
| <b>Measurement range</b><br>- MD22-TFT-PCT<br>- MD22-TFT-IU<br>- MD22-TFT-T | Not applicable<br>4-20 mA / 0-10 V<br>-200÷850 °C (for sensor PT100)                                  |
| <b>Input</b><br>- MD22-TFT-PCT<br>- MD22-TFT-IU<br>- MD22-TFT-T             | 4 logic inputs<br>2 measuring terminals U/I<br>2 measuring terminals (for sensor PT100)               |

#### Mechanical fastening

The indicator is designed for mounting in a standard  $\varnothing$ 22.5mm hole with a positioning cut-out at the top. Mounting the indicator to the board is limited to inserting the body into the prepared hole and screwing it from the rear with the fixing nut.

#### Electrical connections


The indicators are powered with safe voltage, nominally 24 V DC or AC. The supply voltage and the input signal are supplied through six screw connection terminals. The power supply is not galvanically separated from the measuring circuit (the circuits have a common "ground").

## MD22-TFT-PCT

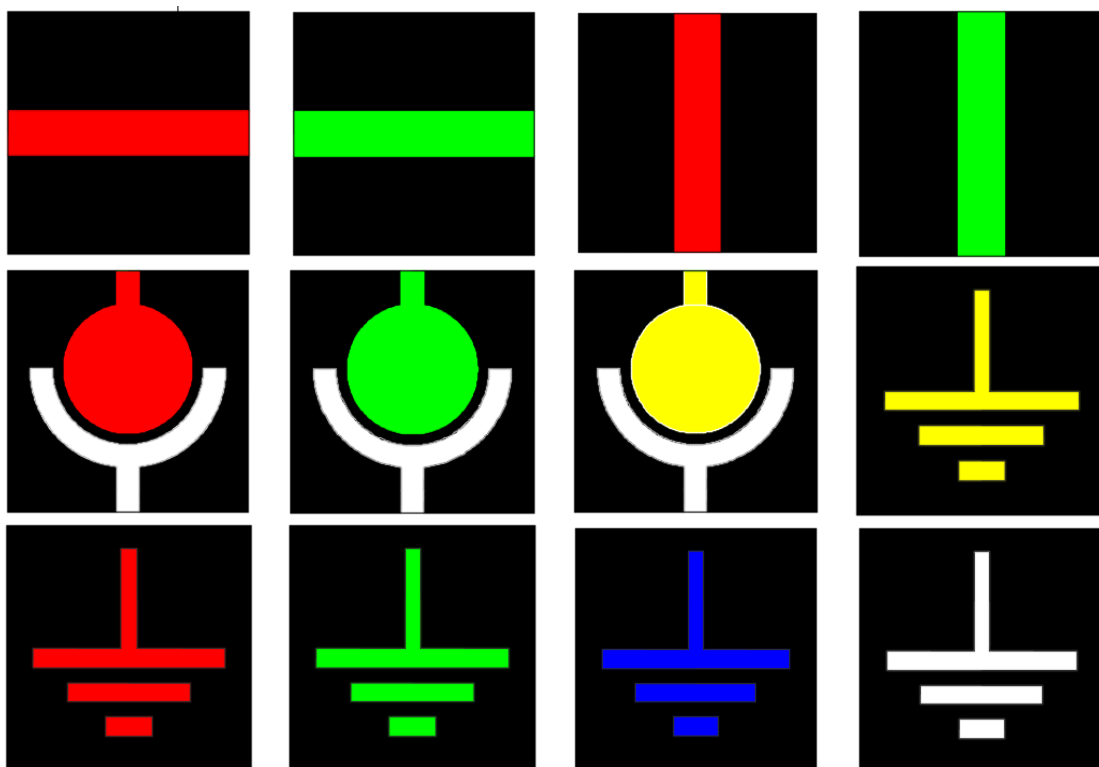
The MD22-TFT-PCT indicator is designed for visualization of a device status (on, off, direction of movement, etc.) by displaying appropriate graphics (pictograms or digits) according to the combination of logic states of four inputs. As a result, it is possible to choose between 16 graphics.

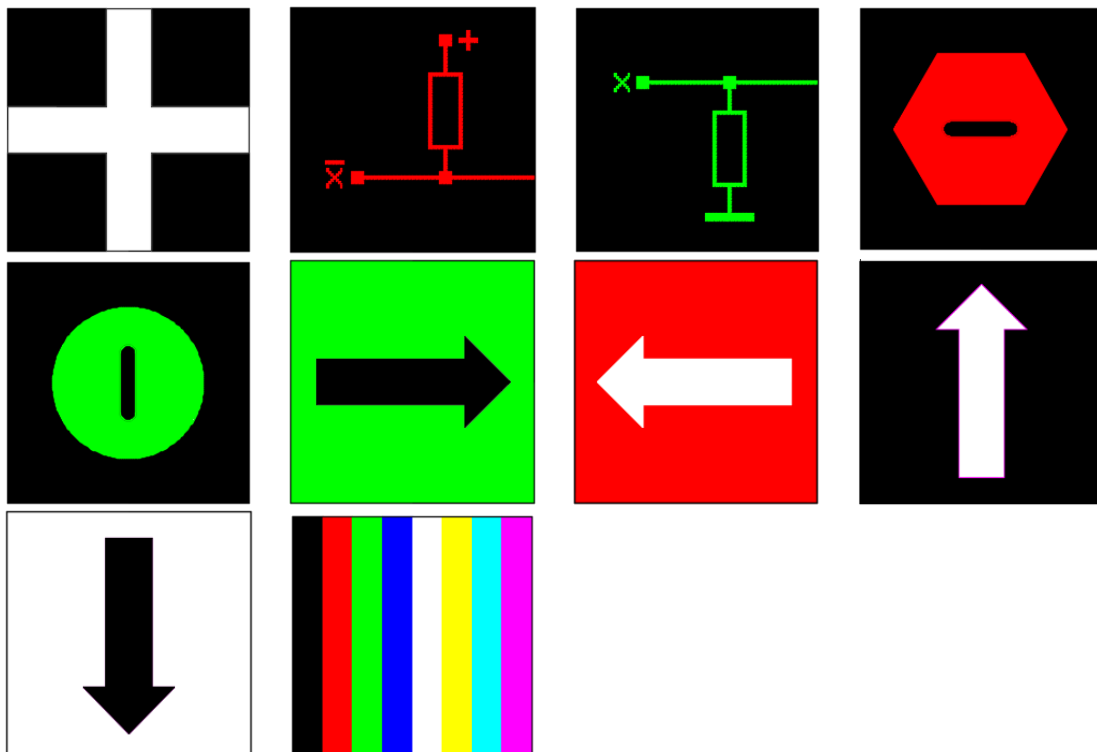
The number of graphical elements stored in memory can be bigger, max. 99. All combinations of logic input states can be assigned to any graphical elements.

The set of available graphical elements contains images, which makes it possible to use MD22-TFT-PCT as a functional equivalent of MD22-WP, -WU and -WPW LED indicators.

|                                                                                   | Designation  | Colour | Weight [g] |
|-----------------------------------------------------------------------------------|--------------|--------|------------|
|  | MD22-TFT-PCT | czarny | 31         |

### The present set of graphics available






### MD22-TFT-PCT-S1

In terms of hardware, it is a graphics display MD22-TFT-PCT, only the software is different. Sixteen two-color graphics are displayed in the form of large numbers from 0 to 9 and letters A to F, permanently assigned to each of the sixteen possible combinations of logical states of inputs. Only the type of inputs can be programmed with the buttons.

On customer's request, the character set may be modified (all or some characters). The new mark must be two-color graphics (the color of the mark itself and the color of the background). The ordered signs may be in the form of \*.bmp files from the "Paint" program (128x128 pixels monochrome graphics with the color of the mark and background), or any other graphic form.

|                                                                                     | Designation     | Colour | Weight [g] |
|-------------------------------------------------------------------------------------|-----------------|--------|------------|
|  | MD22-TFT-PCT-S1 | czarny | 31         |


## MD22-TFT-IU

MD22-TFT-IU is a standard indicator of current loop and voltage signal. This model is designed for displaying various physical quantities converted via appropriate sensors/transducers to standard signals 4÷20 mA or 0÷10 V. The quantity displayed consists of three digits. Additionally, the display shows a bargraph (a horizontal bar of variable length) which provides general information about the quantity measured and which is well-visible from a greater distance than a digital indication.

The indicator has two open-collector alarm outputs which are activated below the lower threshold or above the upper threshold.

The programming buttons can be used to:

- choose the measured value (I or U),
- choose between the following units: mA, A, V, %, at, °K, °C (other options available on request),
- choose where the decimal point is to be displayed,
- assign minimum and maximum levels (rescaling),
- set the upper and lower alarm thresholds or to switch off alarms.

|                                                                                    | Designation | Colour | Weight [g] |
|------------------------------------------------------------------------------------|-------------|--------|------------|
|  | MD22-TFT-IU | czarny | 31         |

## MD22-TFT-T


The MD22-TFT-T indicator is a digital temperature meter compatible with the PT100 sensor (not included), designed mostly to monitor temperature of industrial equipment, control and switch cabinets, etc. The measuring range is -200÷800°C, measurement error is ± 2°C.

The quantity displayed consists of three digits. Additionally, the display shows a bargraph (a horizontal bar of variable length) which provides general information about the quantity measured and which is well-visible from a greater distance than a digital indication.

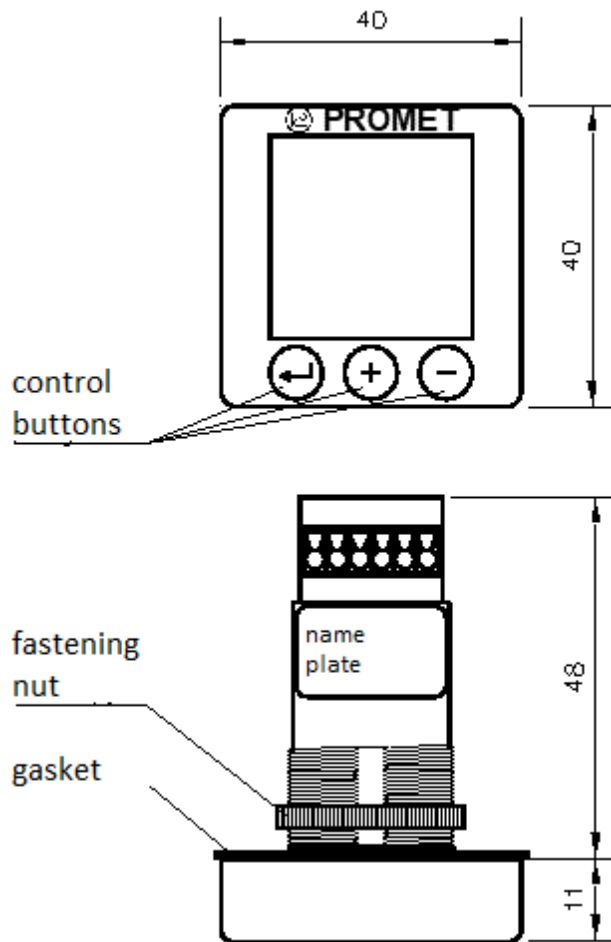
The indicator has two open-collector alarm outputs which are activated below the lower threshold or above the upper threshold.

The programming buttons can be used to:

- choose how the PT100 sensor is to be connected (via two or three wires),
- assign the bargraph range corresponding to minimum and maximum levels,
- set the upper and lower alarm thresholds or to switch off alarms.

|                                                                                     | Designation | Colour | Weight [g] |
|-------------------------------------------------------------------------------------|-------------|--------|------------|
|  | MD22-TFT-T  | czarny | 31         |

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