

# MESSKO® D1272AT® – DIGITAL INDICATOR

## ORDERING SPECIFICATIONS.

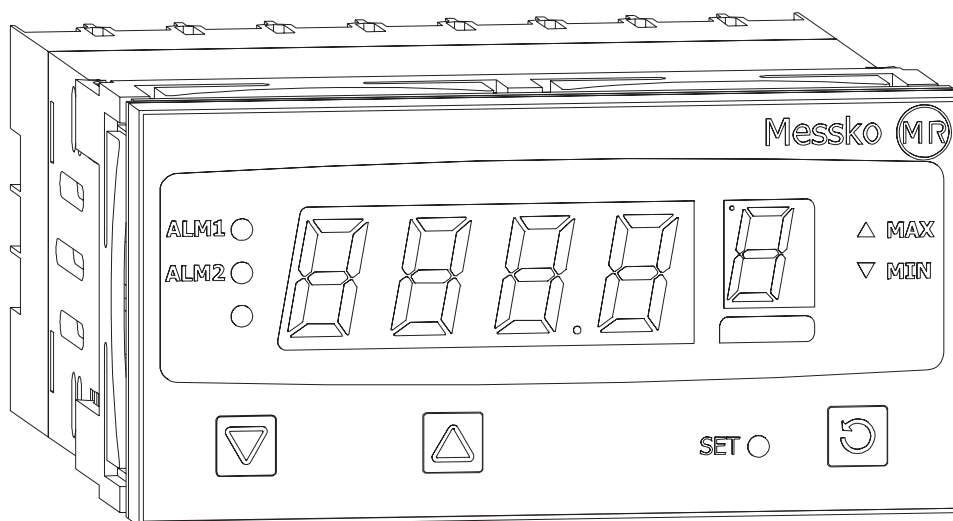


D1272AT®-Series  
Digital Indicator

Project/Reference: \_\_\_\_\_

| Input                    |            |
|--------------------------|------------|
| <input type="checkbox"/> | Pt100      |
| <input type="checkbox"/> | 4 to 20 mA |

| Relay Contacts           |       |
|--------------------------|-------|
| <input type="checkbox"/> | None  |
| <input type="checkbox"/> | 2x NO |



| Analog Output            |            |
|--------------------------|------------|
| <input type="checkbox"/> | None       |
| <input type="checkbox"/> | 4 to 20 mA |
| <input type="checkbox"/> | 0 to 20 mA |
| <input type="checkbox"/> | 0 to 5V    |
| <input type="checkbox"/> | 0 to 10V   |

| Measuring Range          |                                      |
|--------------------------|--------------------------------------|
| <input type="checkbox"/> | -20 to +140 °C                       |
| <input type="checkbox"/> | 0 to +160 °C                         |
| <input type="checkbox"/> | 0 to +180 °C                         |
| <input type="checkbox"/> | 0 to 100 %<br>(Oil Level Indication) |

Please enclose this order form filled in the order.

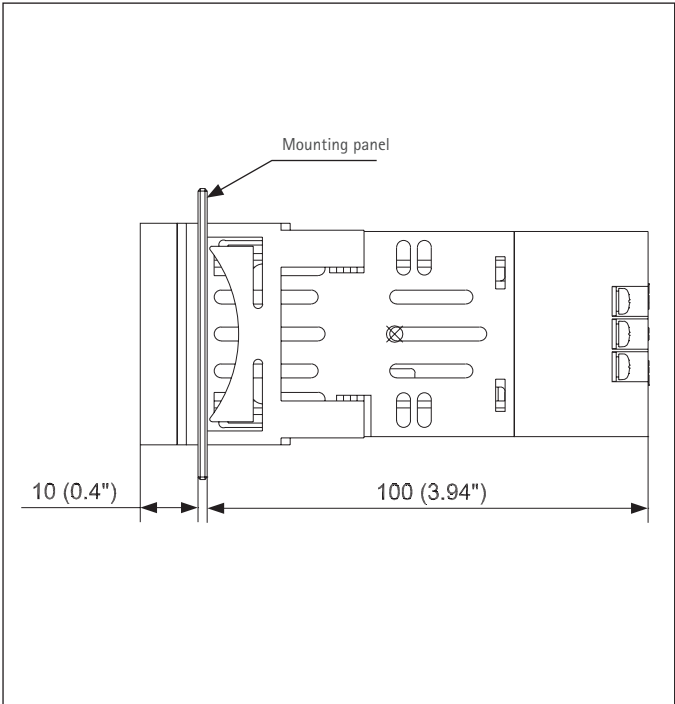
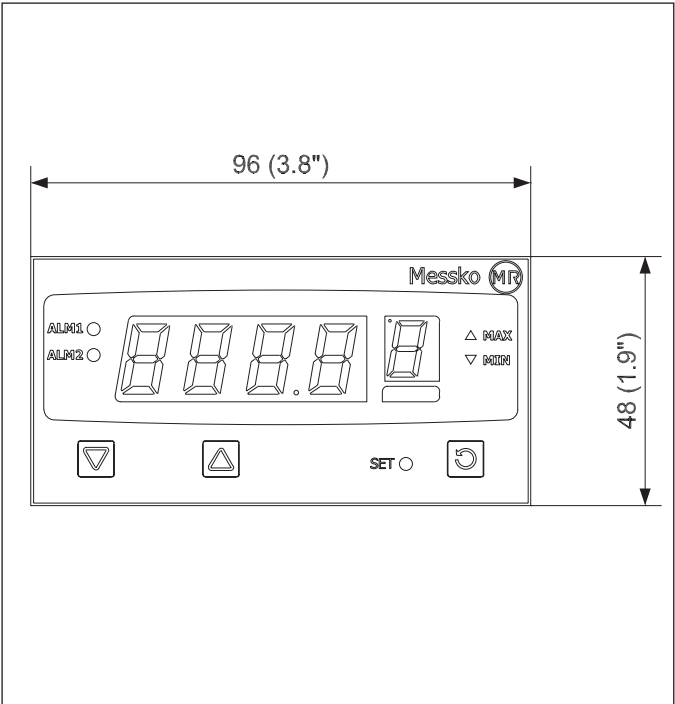
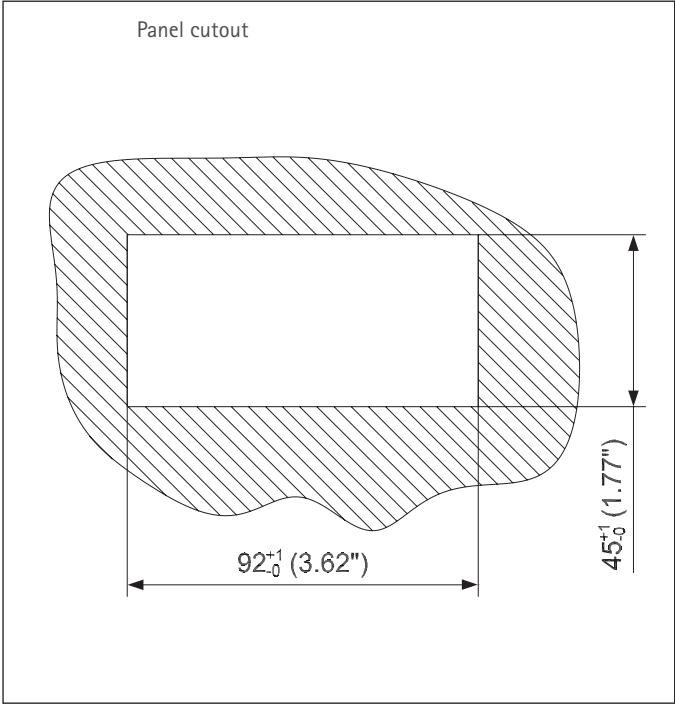
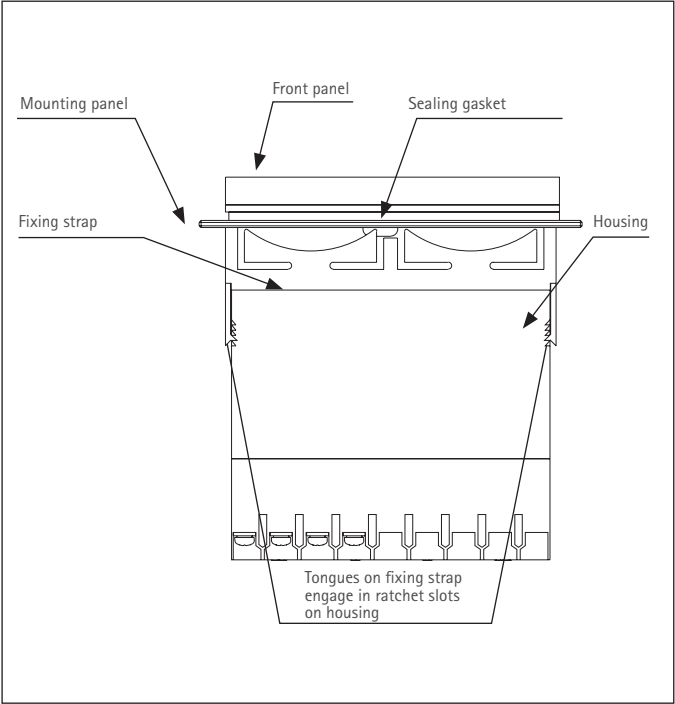
# MESSKO® D1272AT® – DIGITAL INDICATOR

## TECHNICAL DATA.

| MESSKO® D1272AT®                 | Technical Data                                                                                                                                                                                                                                       |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Input</b>                     |                                                                                                                                                                                                                                                      |
| Type                             | RTD Pt100 3-wire-technology acc. to IEC751 or 4 to 20 mA (active or passive)                                                                                                                                                                         |
| Insulation                       | Galvanic isolation of all inputs up to 250VAC                                                                                                                                                                                                        |
| Sensor Break                     | Detected within two seconds, outputs are disconnected                                                                                                                                                                                                |
| Accuracy                         | $< \pm 0,25\%$ of the display range $\pm 1$ digit (at 20 °C, 60-70% rh) ( $< \pm 0.5$ °C at a measuring range of 160 °C)                                                                                                                             |
| Supply Voltage                   | 100 - 240V AC $\pm 10\%$ , 50/60 Hz, max. consumption 7.5VA                                                                                                                                                                                          |
| <b>Output (optional)</b>         |                                                                                                                                                                                                                                                      |
| Analog Output                    | The analog output can be ordered and configured as required between the following ranges:<br>4 to 20 mA (load max. 250 $\Omega$ )<br>0 to 20 mA (load max. 250 $\Omega$ )<br>0 to 5V (load min. 2 k $\Omega$ )<br>0 to 10V (load min. 2 k $\Omega$ ) |
| <b>Sensor Supply Voltage</b>     |                                                                                                                                                                                                                                                      |
| Output Voltage                   | 20 - 28V DC (24V DC nominal)                                                                                                                                                                                                                         |
| Output Load                      | Min. 910 $\Omega$ (22 mA at 20V DC)                                                                                                                                                                                                                  |
| <b>Relay Contacts (optional)</b> |                                                                                                                                                                                                                                                      |
| Contact Type                     | 2 x NO switch with common throw, hysteresis 1K                                                                                                                                                                                                       |
| Contact Load                     | Max. 2A ohmic load at 250VAC                                                                                                                                                                                                                         |
| Lifetime                         | > 500,000 cycles of operation at rated voltage/current                                                                                                                                                                                               |
| Insulation                       | Isolated from all other inputs and outputs                                                                                                                                                                                                           |
| <b>Ambient Conditions</b>        |                                                                                                                                                                                                                                                      |
| Ambient Temperatur               | 0 °C to +55 °C (Operation)<br>-20 °C to +80 °C (Storage)                                                                                                                                                                                             |
| Humidity                         | 20% - 95%, free of condensation                                                                                                                                                                                                                      |
| <b>Tests</b>                     |                                                                                                                                                                                                                                                      |
| Product compliance               | CE, UL, ULC                                                                                                                                                                                                                                          |
| EMC                              | EN/IEC 61326 (Susceptibility and emission)<br>EMC-emitted interference: EN/IEC 50081-2 (Industrial sector)<br>EMC-interference resistance: EN/IEC 50082-2 (Industrial sector)                                                                        |
| Degree of protection             | IP 66 at the front<br>IP 20 at the back (after panel mounting)                                                                                                                                                                                       |
| Electrical safety                | IEC/EN 61010-1, Protection class II                                                                                                                                                                                                                  |
| <b>General data</b>              |                                                                                                                                                                                                                                                      |
| Dimensions                       | Front panel: width 96 mm, height 48 mm and depth 110 mm (1/8 DIN)                                                                                                                                                                                    |
| Weight                           | Max. 210 g                                                                                                                                                                                                                                           |

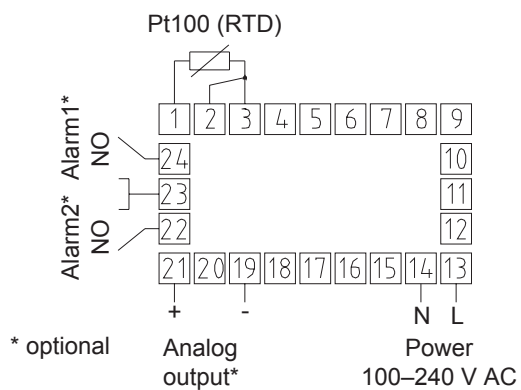
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## PANEL MOUNTING.

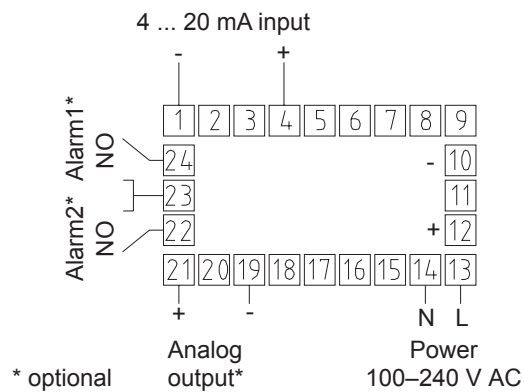


## Electrical connections

### Input: Pt100 sensor



### Input: active 4 ... 20 mA sensor



### Input: passive 4 ... 20 mA sensor

