

# Digital Indicator DA2000

96×48 mm panel meter

# Datasheet 86.1

Digital Indicators

**Description :** 3½ - digit digital indicator for flush panel mounting

**Display :** LED display - red  
display height 14,2 mm  
Maximum range :  
-1999...+1999 digit

**Inputs :** Platinum RTD's (Pt100)  
according DIN IEC 751  
Thermocouples  
according DIN IEC 584  
Uniform signals :  
4...20 mA, 0...20 mA, 0...10 V

**Housing:** Plastic case, black  
Front dimensions :  
96 × 48 mm  
Cut out dimensions :  
92 × 45 mm  
Mounting depth : ~148 mm

**Protection class :** Front side : IP 41  
Back side : IP 20

**Clamps :** Screw- clamps max. dia. 2,5 mm<sup>2</sup>



**Supply :** 230 V/AC, 45...65 Hz  
optional :  
115 V/AC, 45...65 Hz or  
24 V DC physically separated

**Typical applications :** Process indications

## Technical data for uniform signals inputs 4-20 and 0-20 mA :

Temperature influence : 100 ppm / K  
Display Error : ± 0,1 %, ± 1 digit  
Inherent resistance max. 100 Ω  
Maximum current 50 mA

## Technical data for uniform signals inputs 0-10 V :

Temperature influence : 100 ppm / K  
Display error : ± 0,1 %, ± 1 digit  
Inherent resistance > 55 KΩ

## Technical data for thermocouples (type K and type J) :

For the couples +NiCr/-Ni (K) and +Fe/-CuNi (J)  
Cold junction compensation for the range of 0-60 °C  
Temperature influence : 250 ppm / K  
Display error : ± 8 K for J  
± 5 K for Typ K < 800 °C  
± 15 K for Typ K > 800 °C

## Technical data for resistance thermometer inputs (Pt100) :

(in 3-wire circuit max. 10 Ω per wire)  
Temperature influence : 100 ppm / 1 K  
Display error : ± 0,2 %, ± 1 digit

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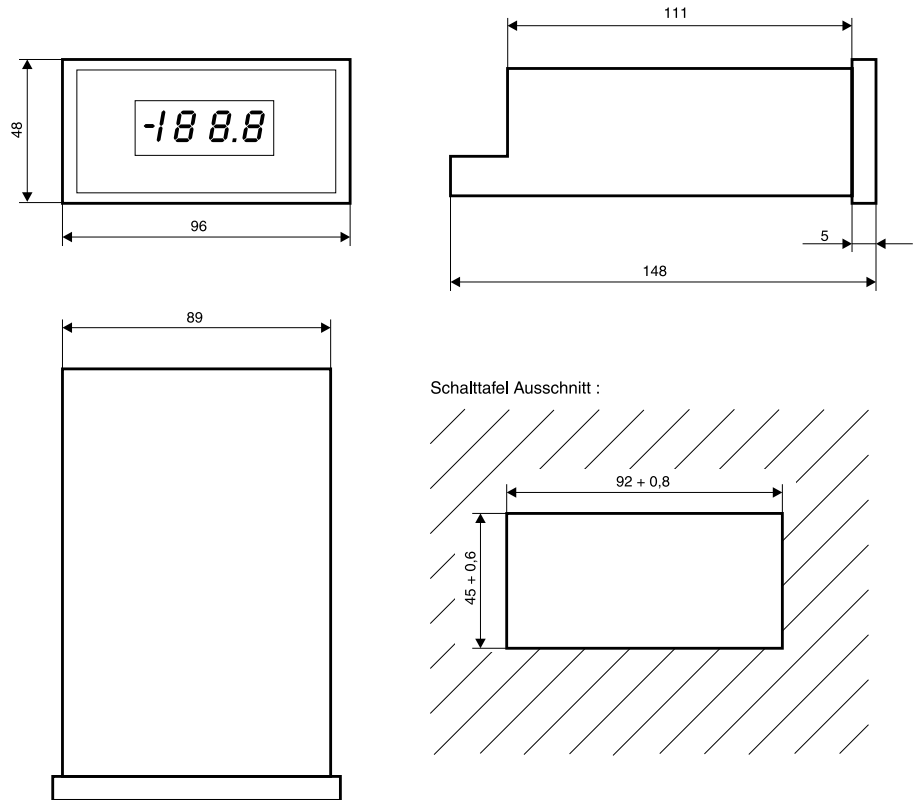
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Digital Indicators

| Ranges / Inputs                               |     |
|---|-----|
| Ordering - code                               | F G |
| -199,9...+199,9 °C RTD's<br>Resolution 0,1 °C | 1 0 |
| -200...800 °C RTD's<br>Resolution 1 °C        | 1 1 |
| 0...1600 °C Thermocouples<br>Resolution 1 °C  | 1 2 |
| 0...200 °C Thermocouples<br>Auflösung 0,1 °C  | 1 3 |
| 0...200 mV<br>Resolution 100 µV               | 1 4 |
| 0...2 V<br>Resolution 1 mV                    | 1 5 |
| Uniform Signals :                             |     |
| 4...20 mA without supply *                    | 1 6 |
| 4...20 mA with supply *                       | 1 7 |
| 0-20 mA                                       | 1 8 |
| 0-10 V  | 1 9 |

Please define range and unit in plain text if you use uniform signals.

\* "supply" means that you have a 24V supply output for transmitters.



| Sensors            |     |
|--------------------|-----|
| Ordering - code    | H I |
| Uniform signal     | 0 0 |
| Pt 100 DIN IEC 751 | 1 1 |
| Ni / CrNi ( K )    | 1 6 |
| FeCu / Ni ( J )    | 1 7 |
| FeCu / Ni ( L )    | 2 0 |

| Output          |     |
|-----------------|-----|
| Ordering - code | L M |
| without         | 0 0 |
| 0 ... 20 mA     | 1 1 |
| 4 ... 20 mA     | 1 2 |
| 0 ... 10 V      | 1 3 |

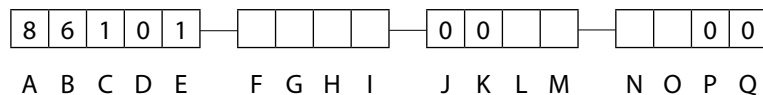
| Supply          |   |
|-----------------|---|
| Ordering - code | O |
| 230 V / AC      | 0 |
| 115 V / AC      | 1 |
| 24 V / DC       | 4 |

Pt 10, Pt 25, Pt 1000 und other Thermocouples according DIN IEC 584 - upon request

## Ordering-code :

for ordering please fill out all empty digits in the order code on the right.

The code numbers for all free digits you find in the charts above.



## For ordering please declare in plain language :

Range for uniform signals :

von .....bis.....

Unit :

.....