

Digital Indicator DAR Type 1 & 2

96×48 mm panel meter with 1 or 2 relais contacts

Datasheet 87.1

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

Output : Physically separated
0...20, 4...20 mA • Load 1 kΩ
0...10 V • R_{LOAD} min. 2 KΩ
Accuracy : ± 0,2 % FS

Contacts : Voltage free change over contact
2A / 250 V/AC



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

Clamps : Screw- clamps max. dia. 2,5 mm²

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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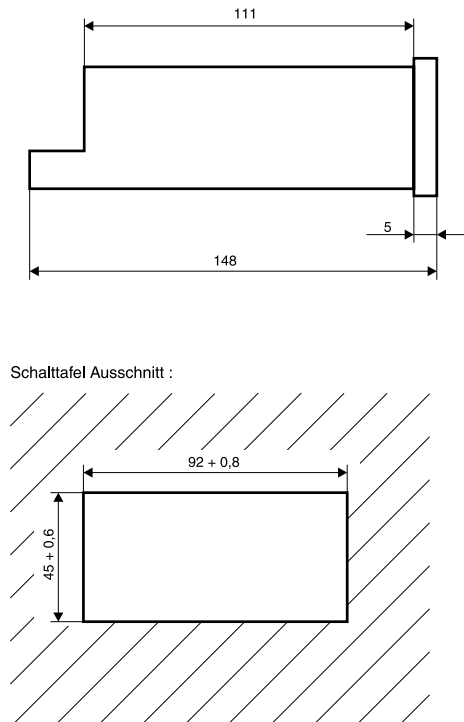
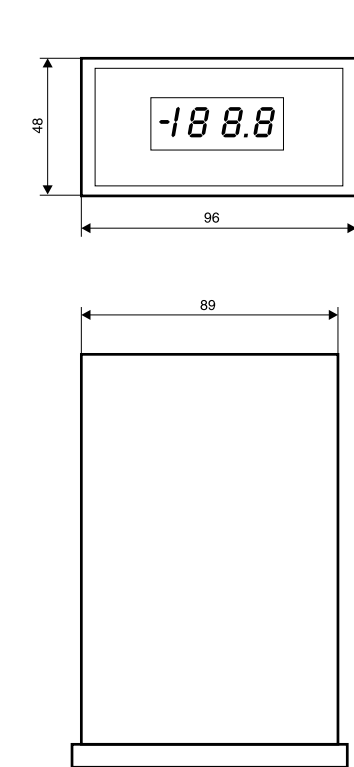
Digital Indicators

Ranges / Inputs	
Ordering - code	F G
-199,9...+199,9 °C RTD's Resolution 0,1 °C	1 0
-200...800 °C RTD's Resolution 1 °C	1 1
0...1600 °C Thermocouples Resolution 1 °C	1 2
0...200 °C Thermocouples Auflösung 0,1 °C	1 3
0...200 mV Resolution 100 µV	1 4
0...2 V 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



Relais contacts	
Ordering - code	J K
1 Contact	1 1
2 Contacts *	1 2

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

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

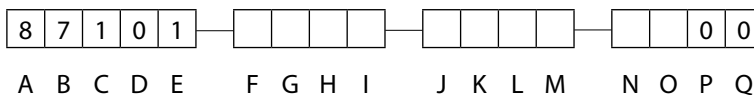
* When using an output you can only have one relais contact

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 :

vonbis.....

Unit :

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