■ Programmable Digital Panel Meter Model UM 3011

Highlights

- **Signal Input 0 - 10 V and 0/4 - 20 mA**
- **DIN Housing 96 x 48 mm**
- **LED Display 14 mm**
- **Switchboard- or Mosaic System Mounting**
- **Plug-In Screw Terminal**
- **Isolated Power Supply**
- **Optocouple Output**

UM 3011

- Voltage 0 - 10 V
- Current 0 - 20 mA resp. 4 - 20 mA
- Display range -999 .. 9999
- Temperature Pt100, -100...800°C
- Resolution max. 4000 digits
- Accuracy 0,1% ±1 digit

Software functions

- Scaling-factor
- Userdefined linearization up to 9 points
- Adjustable digital filter
- Peak detection
- Decimal point
- Last digit in 1, 2, 5 or 10 steps
- Display test

Digital input channels

The instrument is provided with three digital input channels. The digital input channels are low active. The digital inputs are used for the following functions:

- Programming
- Display test
- Reset of peak detection
- Display of limiting value

Optocouple output

The instrument is provided with a optocouple output. Alternatively the optocouple output can be programmed for the following functions:

1. Serial output

Continually measured value transmitting at ASCII-Code with the following data format:

- Sign or X, X, X, (dp), X, $0D_H$, $0A_H$
- 9600 Bd, 1 start bit, 8 data bits, 1 stop bit

2. Limiting value

The instrument is provided with a optocouple output for limiting value function. Following function can be programmed:

- Alarm point and hysteresis
- High or low alarm

Power supply

- 18 .. 36 V DC isolated
- Optional 12 V DC isolated
- Optional 5 V DC isolated

Programming

The programming is easy and clearly arranged. By means of a programming menue the user is taken through this programming. The programming is carried out through the digital input channels.

Options

Housing type
- Switch board mounting DIN 43700
- Mosaic system mounting (Subklev, Siemens 8RU)

Colour of the front frame
- Black

Design of the front
- Without front foil
- Front foil ERMA-METER or NEUTRAL
- Unit overprint

Display colour
- Red
- Green

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Technical data

Ranges		
Voltage	: 0 ...10 V, ± 0,1%	
Current	: 0(4)...20 mA, ± 0,1%	
Temperatue	: -100...800 °C, ±0,1% ±1 °C	
Input resistance	: at voltage	> 1 MΩ
	: at current	approx. 10 Ω
Conversion rate		: approx. 5 per sec
Digital inputs	: 10 kΩ to +5 V	
	: low level	< 0,4 V
	: high level	> 3,5, max. 30 V
Optocouple output		
Limit value	: max. 10 mA, 70 V, max. 150 mW	
Serial data	: 9600 baud, 1, 8, N, 1	
Power supply DC	: 18 V to 36 V DC, isolated	
optional	: 12 V DC, ± 10 %, isolated	
optional	: 5 V DC, ± 10 %, isolated	
Power consumption	: approx. 65 mA (red display)	
(18 .. 36 V DC)	: ca. 75 mA (green display)	
Display	: 4 decades, 14 mm, red (opt. green	
	: Decimal poit programmable	
	: leading zero blanking	
Housing	: switch board mounting DIN 43700	
Dimensions	: 96 x 48 x 63,5 mm	
Depth	: < 72 mm incl. screw terminal	

Environmental

Operating temperature	: 0 .. 50 °C
Storage temperatur	: -20...70 °C
Humidity	: < 80% non-condensing
Protection	: front IP 40
EMC	: in conform with 89/336/EWG

Ordering information

UM 3011 - _ _ _ _ _ _

Housing
- **0** Switch board mount
- **1** Panel clip

Front frame colour
- **0** Black

Front design
- **0** Without front foil
- **1** Front foil ERMA-METER
- **2** Front foil NEUTRAL

Display colour
- **0** Red
- **1** Green

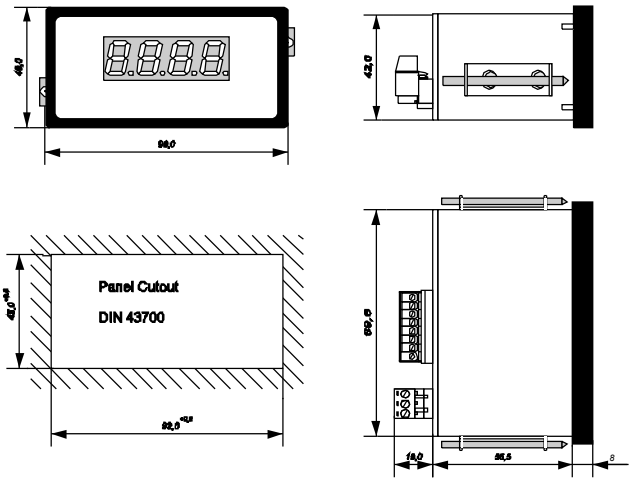
Power supply
- **0** 5 V DC, ± 10%, isolated
- **1** 12 V DC, ± 10 %, isolated
- **2** 18 .. 36 V DC, isolated

Unit overprint

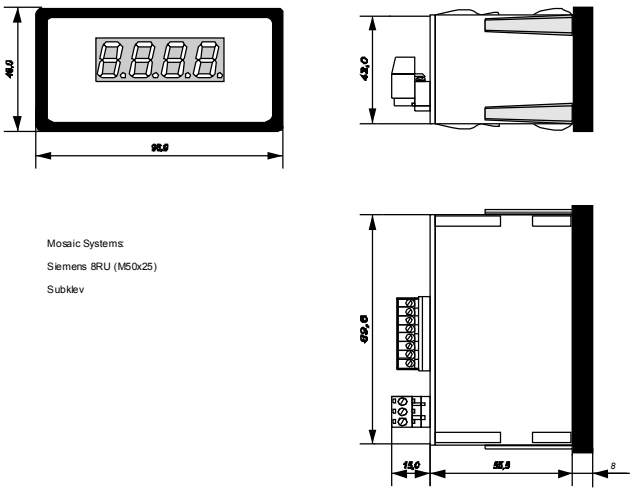
Please specify in clear text at order !

Dimensions

Switch board mounting



Panel clip



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