

## ■ Programmable Digital Panel Meter UM 3022

### Highlights

- Signal Input 0 - 10 V and 0/4 - 20 mA
- DIN Housing 96 x 48 mm
- LED Display 14 mm
- Panel or Mosaic System Mounting
- Screw Terminal
- Alarm or Serial Output
- Analog Output 0/4...20 mA
- Linearization
- Sensor Supply (24 VDC/100 mA)
- Power Supply 95...240 VAC

### UM 3022

- Voltage 0 - 10 V
- Current 0 - 20 mA resp. 4 - 20 mA
- Display range -999 .. 9999
- Resolution max. 64000 digits
- Accuracy 0,01% (current 0,02 %)  $\pm 1$  digit
- Analog Output 0/4 ... 20 mA
- Sensor Supply 24 VDC/100 mA

### 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

### Functions Of Push Buttons And Digital Input Channels

The instrument is provided with four push buttons at the front and three digital input channels at the rear. Following functions can be carried out:

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

### Optocouple Output Channel

The instrument is provided with a optocoupler output. This output can be programmed for two functions.

#### 1. Serial Output

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



- Sign or X, X, X, (dp), X, 0D<sub>H</sub>, 0A<sub>H</sub>
- 9600 Bd, 1 start bit, 8 data bits, 1 stop bit

#### 2. Alarm Output

Following function can be programmed:

- Alarm point and hysteresis
- High or low alarm
- During normal measurement the limit value can be programmed by the push buttons "+" and "-".

### Analog Output

- Programmable between 4...20 mA or 0... 20 mA

### Sensor Supply

- A sensor power supply 24 VDC/100 mA is available

### Power Supply

- 95 ... 250 VAC

### Programming

By means of a programming menu the user is taken through the programming of the unit. The programming can be carried out by the push buttons at the front.

### Options

#### Housing

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

#### Front Design

- Front foil ERMA-METER
- Front foil NEUTRAL
- Unit overprint
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*Technical data*

Ranges  
 Voltage : 0...10 VDC  
 Input impedance : at voltage > 1 M  
 Current : 0...20 mA, 4...20 mA  
 Input impedance : 10  
 Resolution : 16 Bit

Display : 4 decades, 14 mm, red  
 Conversion rate : approx. 2 per sec

Isolated analog output : 0/4...20 mA  
 Max. load resistance : 500  
 Resolution : 16 Bit

Digital inputs : 10 k 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 : 95 ... 240 VAC  
 Power consumption : 4,5 VA  
 Housing : panel mounting DIN 43700  
 Dimensions : 96 x 48 x 72 mm  
 Depth : 65 mm

Protection : front IP 54

EMV : in conform with 89/336/EWG  
 Operating temperature : 0 .. 50 °C

*Ordering information*

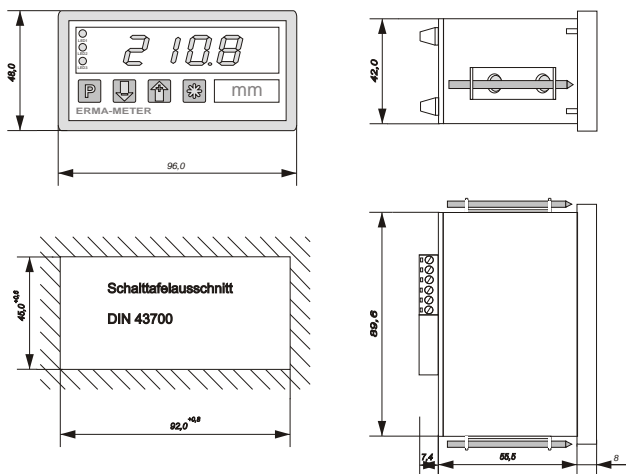
<b>UM 3022 -</b>	
	<b>Housing</b>
	0 Switch board mount
	1 Panel clip
	<b>Front Frame Color</b>
	0 Black
	<b>Front Design</b>
	0 Reserve
	1 Front foil ERMA-METER
	2 Front foil NEUTRAL
	<b>Display Color</b>
	0 Red
	<b>Power Supply</b>
	0 95 ... 240 VAC

**Unit overprint**

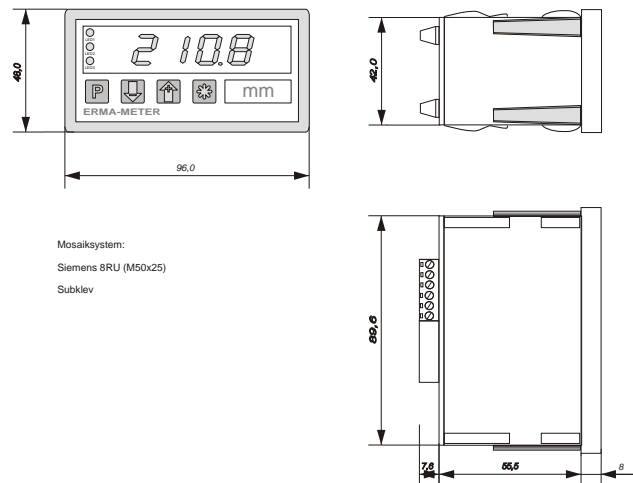
Please specify in clear text at order !

**Dimensions**

**Panel Mounting**



**Panel Clip**



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