■ Programmable Digital Panel Meter Model UM 5000

Highlights

- **Signal Input 0 - 10 V and 0/4 - 20 mA**
- **DIN Housing 144 x 72 mm**
- **LED Display 25 mm**
- **Switchboard- or Mosaic System Mounting**
- **Plug-In Screw Terminal**
- **Isolated Power Supply**
- **2 Alarm Relay Outputs**
- **Serial Output**

UM 5000

- Voltage 0 - 10 V
- Current 0 - 20 mA resp. 4 - 20 mA
- Display range -999 .. 9999
- 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 in1, 2 , 5 or 10 steps
- Display test
- Limiting value functions

Digital input channels

The instrument is provided with three digital input channels. The digital input channels are low active. The digital inputs are carried out following functions:

- Programming
- Display test
- Reset of peak detection

Serial Output

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

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

Alarm relay outputs

The instrument is provided with two alarms with relay output. For each alarm point there can be programmed following functions:

- Alarm point and hysteresis
- High or low alarms

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 cariied out through the digital input channels.

Options

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

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

Colour of the front frame
- Black

Display colour
- Red
- Green

Technical data

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Display	: 4 decades, 25 mm, red (opt. gren)
Input impedance	: at voltage > 1 MΩ
	: at current approx. 10 Ω
Conversion rate sec	: approx. 5 per
Digital inputs	: 10 kΩ to +5 V
	: low level < 0,4 V
	: high level > 3,5 V, max. 30 V
Serial output	: Optocoupler
	: max. 10 mA, 70 V, max. 150 mW
	: 9600 baud, 1, 8, N, 1
Limit value (relays)	: AC max. 5 A, max. 250 V, 1250 VA
	: DC max. 5 A, max. 250 V, 100 W
Indication of limit value	: two LEDs at the front
Power supply DC	: 18 V to 36 V DC, isolated
optional	: 12 V DC, ± 10 %, isolated
optional	: 5 V DC, ± 10 %, isolated
Power consumption (18 .. 36 V DC)	: approx. 65 mA (red)
	: approx. 75 mA (green)
Housing	: switch board mounting DIN 43700
Dimensions	: 144 x 72 x 63,5 mm
Depth	: < 72 mm incl. screw terminal
Protection	: front IP 40
EMV	: in conform with 89/336/EWG
Operating temperature	: 0 .. 50 °C

Ordering information

UM 5000 -						
						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 Cutout
DIN 43700
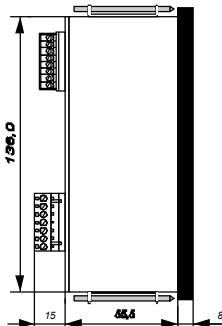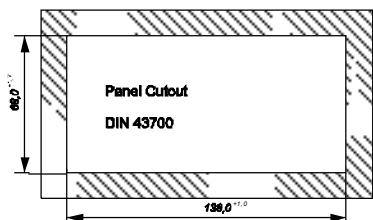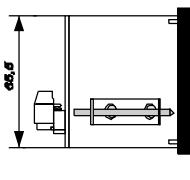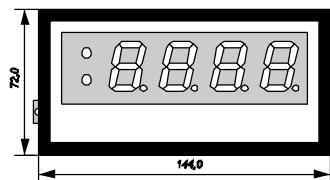
Panel clip
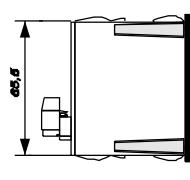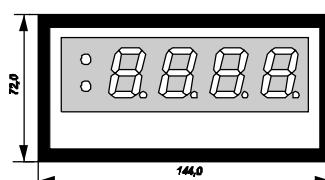
Mosaic Systems:

Siemens 8RU (M50x25)

Subklev

Technical Subjects To Change

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