

■ Programmable Digital Panel Meter Model UM 3012

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 3012

- Potentiometer 1k...10k
- Accuracy 0,1% \pm 1 digit
- max. resolution 4000 digit



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 menu 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

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

Technical data

Ranges	
Potentiometer	: 1k...10k
Input resistance	: > 1 M Ω
Accuracy	: 0,1% \pm 1 digit
Conversion rate sec	: approx. 5 per
Digital inputs	: 10 k Ω 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 optional	: 18 V to 36 V DC, isolated
optional	: 12 V DC, \pm 10 %, isolated
optional	: 5 V DC, \pm 10 %, isolated
Power consumption (18 .. 36 V DC)	: approx. 65 mA (red display) : ca. 75 mA (green display)
Display	: 4 decades, 14 mm, red (opt. green) : Decimal point programmable : leading zero blanking : switch board mounting DIN 43700
Housing 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

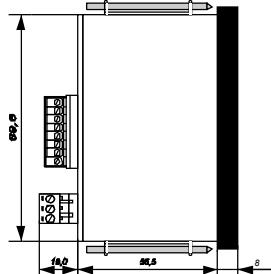
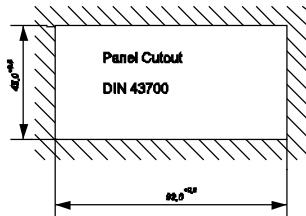
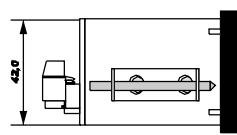
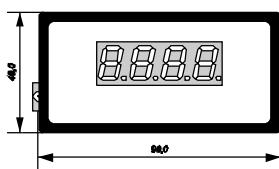
UM 3012 -					
					Housing
					0 Switch board mount 1 Panel clip
					Front frame colour
					0 Black
					Front design
					0 Without front foil 1 Front foil ERMA-METER 2 Front foil NEUTRAL
					Display colour
					0 Red 1 Green
					Power supply
					0 5 V DC, \pm 10%, isolated 1 12 V DC, \pm 10 %, isolated 2 18 .. 36 V DC, isolated

Unit overprint

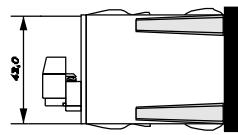
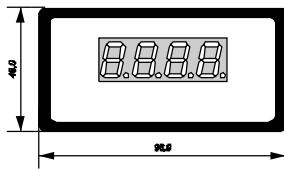
Please specify in clear text at order !

Dimensions

Switch board mounting



Panel clip



Mosaic Systems
Siemens 8RU (M50x25)
Subklev

