

■ Programmable Digital Panel Meter Model UM 7000

Highlights

- Signal Input 0 - 10 V and 0/4 - 20 mA
- DIN Housing 192 x 72 mm
- LED Display 45 mm
- Switchboard- or Mosaic System Mounting
- Plug-In Screw Terminal
- Isolated Power Supply
- 2 Alarm Relay Outputs
- Serial Output

UM 7000

- 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 in 1, 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 menu the user is taken through this programming. The programming is carried out through the digital input channels.

Options

Housing

- Switch board mounting DIN 43700
- Mosaic system mounting (Subklev)

Colour of the front frame

- Black

Display colour

- Red

Technical data

Display : 4 decades, 45 mm, red

Input impedance : 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 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 : approx. 70 mA (18 .. 36 V DC)

Housing : switch board mounting DIN 43700

Dimensions : 192 x 72 x 63,5 mm

Depth : < 72 mm incl. screw terminal

Protection : front IP 40

EMV : in conform with 89/336/EWG

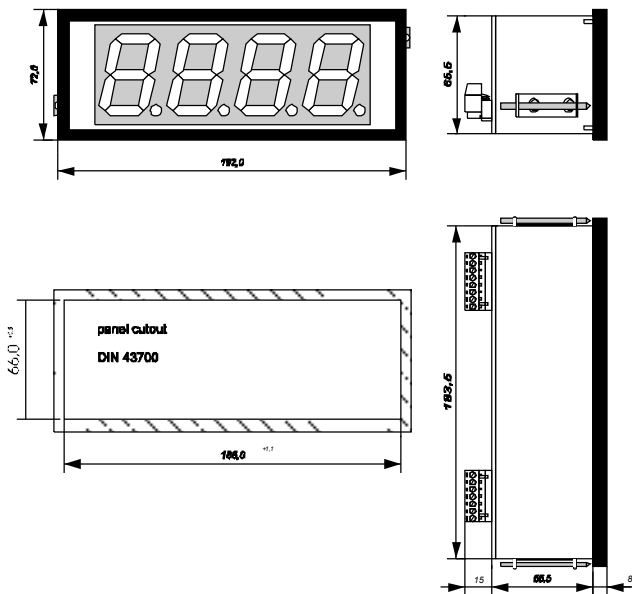
Operating temperature : 0 .. 50 °C

Ordering information

UM 7000 -	
Housing	
0	Switch board mount
1	Panel clip
Front frame colour	
0	Black
Front design	
0	Without front foil
Display colour	
0	Red
Power supply	
0	5 V DC, ± 10%, isolated
1	12 V DC, ± 10 %, isolated
2	18 .. 36 V DC, isolated

Dimensions

Switch board mounting



Panel clip

