■ Programmable Digital Panel Meter Model DM 3002

Highlights

- **LED Dispaly, Red, 6 Decades, 14 mm**
- **DIN Housing 96 x 48 mm**
- **Strain Gauge (DMS) Input**
- **User Configurable**
- **High Accuracy**
- **Userdefined Linearization**
- **Reference Voltage Source for DMS-Sensor**
- **Additional 24V DC Sensor Supply**
- **2 Alarm Relay, Analog Output, Interface**
- **Plug-In Screw Terminal**
- **Many Integrated Functions**

Standard functions

Input ranges

- DMS 1 mV/V
- DMS 1,5 mV/V
- DMS 2 mV/V
- DMS 3 mV/V

Software functions

- Scaling-factor
- Adjustable digital filter of 1th order
- Peak and valley detection
- Automatic reset of peak and valley detection
- Userdefined linearization up to 10 points
- Taring
- Display test
- Display hold
- Setting of alarm points during measurement

Display

- Display range +99999 to -99999
- Programmable decimal point
- Data source: direct input, peak-, valley-, mean- or hold value
- Last digit: 1, 2, 5 or 10 steps

Digital input channels

The instrument is provided with two digital input channels. The digital input channels are low active. Each input can be programmed for performing the following functions:

- No function
- Reset of peak and valley detectionn
- Taring
- Reset of taring
- Manual alarm reset
- Display hold
- Display test
- Display of direct input signal
- Display of peak value
- Display of valley value

Push button at the front

The three push buttons at the front can be programmed for performing the following functions:

- No function
- Reset of peak and valley detection
- Taring
- Reset of taring
- Manual alarm reset
- Setting of alarm point
- Showing one of following data source by pressing push button: peak-, valley- or mean value

DMS-sensor supply

The instrument is provided with a reference voltage source 9 V/DC for the DMS-sensor.
At AC model the instrument is provided with a additional sensor supply (24V/50mA DC) for external sensors. This sensor supply is isolated of the signal inputs and the main power supply.

Alarm 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
- Alarm response time
- Data source: direct input, peak-, valley-, mean- or hold value

Options

Analog output

- Isolated
- Configurable range
- Voltage: 0 - 10 V, 2 - 10 V, max. 10 mA
- Current: 0 - 20 mA, 4 - 20 mA, 500 Ohm
- Data source: direct input, peak-, valley-, mean- or hold value
- Indication of sensor break: >22 mA, >11 V

Serial interface

- RS 485-interface, isolated
- Up to 19200 baud

Technical data

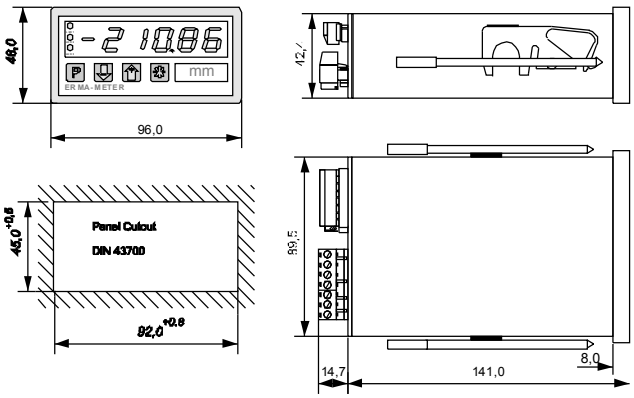
Input range	
DMS	: 1 / 1,5 / 2 / 3 mV/V
	4-wire, bipolar
Sensor supply	: 9 V/DC ± 2 %, 40 mA
Conversion rate	: 5 per sec
Display	: 6 decades, 14 mm, red
Digital input channel	: 10 kΩ to +5 V
Power supply	: 95 V to 250 V/AC
Power consumption	: approx. 5 VA
Housing	: switch board mouting DIN 43700
Dimensions	: 96 x 48 x 141 mm
Depth behind the panel	: 148 mm incl screw terminal
Protection	: front IP 54
EMV	: in conform with 89/336/EWG
Operating temperature	: 0 .. 50 °C
Analog output	: resolution 16 Bit
	: accuracy 0,2% of FSt
	0 - 10 V, max. 10 mA
	0/4 - 20 mA, max. 500 Ω
Alarm outputs	: relay output (closed contact)
	: AC max. 250 V, 5 A, 1250 VA
	; DC max. 250 V, 5 A, 100 W
Indication	: two LEDs at the front

Ordering information

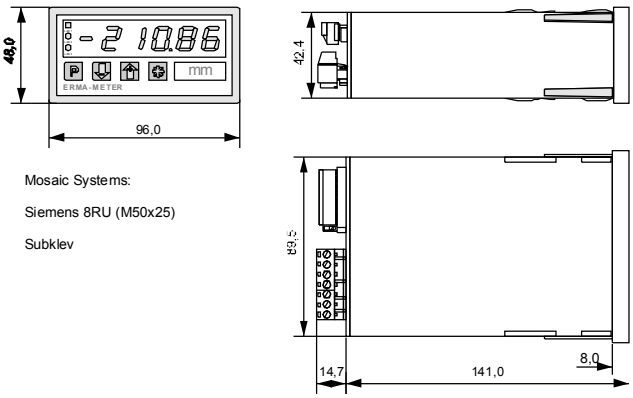
DM 3002-							
							Housing
							0 Switch board mount
							1 Panel clip
							Front frame colour
							0 Black
							Front design
							0 ERMA-Meter logo
							1 No logo
							2 Customer defined logo
							Power supply
							0 95 .. 250 V/AC
							1 18 .. 36 V/DC, isolated
							Option interface
							0 No interface
							1 Interface RS 485
						0	**2** Interface RS 232
						0	**3** Interface Current-Loop, TTY
							Options
							0 No options
							1 With analog output

Dimensions

Switch board mounting



Panel clip



Mosaic Systems:

Siemens 8RU (M50x25)

Subklev

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