

■ Programmable Digital Panel Meter Model DM 3105

Highlights

- 2 Analog Input Channels
- LED Display, Red, 6 Decades, 14 mm
- DIN Housing 96 x 48 mm
- User Configurable
- High Accuracy
- Userdefined Linearization
- Power Supply For Remote External Sensor
- 2 Alarm Relay, Analog Output, Interface
- Plug-In Screw Terminal
- Many Integrated Functions

Standard functions

Input Ranges

- Voltage 0 - 10 V
- Current 0 - 20 mA

Software Functions

- Display for channel A, B, (A - B), (A - B) / B
- 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
- Points programmable
- Data source: direct input, peak-, valley-, mean- or hold value
- Last digit: in 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 detection
- Taring
- Reset of taring, peak, and valley values
- Manual alarm reset
- Display hold and display test
- Display of direct input, peak, or valley value



Push Buttons 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 and 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

Accessory Sensor Supply

At AC model the instrument is provided with a power supply (24V/50mA DC) for external sensors. This power 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

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: Input, peak-, valley-, mean- or hold value

Technical data

Input ranges
 Voltage : 0 - 10 V, $\pm 0,01\%$
 Input resistance : 1 M Ω
 Current : 0 - 20 mA, $\pm 0,01\%$
 Input resistance : 10 Ω

AD converter
 Resolution : 16 Bit
 Conversion rate
 Voltage, Current : 5 per sec

Display : 6 decades, 14 mm, rot

Digital input channels : Programmable
 Input Voltage : max. 30 V
 Threshold level : Low-level < 0.4 V
 : High-level > 3.5 V

Power supply : 95 V to 250 V/AC
 Power consumption : approx. 5 VA
 Optional : 18 ... 36 VDC

Housing : switch board mounting DIN 43700
 Dimensions : 96 x 48 x 141 mm
 Depth : 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 FS
 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

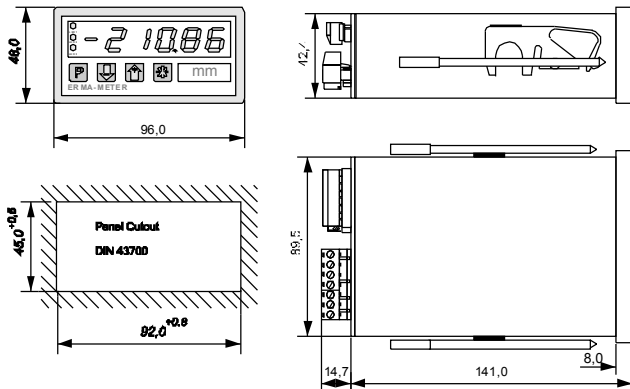
Indication : two LEDs at the front

Ordering information

DM 3105 -	
	Analog Input
0	0 - 10 V
1	0 - 20 mA
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 analog output	
0	no analog output
1	with analog output

Dimensions

Switch board mounting



Panel clip

