

## ■ Programmable Digital Panel Meter Model DM 3110

### Highlights

- LED Display, Red, 6 Decades, 14 mm
- DIN Housing 96 x 48 mm
- Voltage, Current, Thermocouples, Pt100
- 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  $\pm 10$  V
- Current  $\pm 20$  mA
- Current 4 - 20 mA
- Thermocouple Type K, J, L, S, T, U, R
- Pt100 2-/3-/4-Wire

#### 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
- Display of temperature in °C or °F
- 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
- Manual alarm reset



- Display hold
- Display test
- Display of direct input signal
- Display of peak value
- Display of 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
- 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

