

## Product information

# Resistance Transmitter PMT50-2



- Signal conditioning – linearisation – output characteristic transformation
- Input for resistance and Potentiometer
- Measuring range configurable
- Linearisation or transformation of output characteristic via 32 base-points programmable
- Automatic fault detection in the measuring circuit

## Characteristics

The programmable universal transmitter PMT50 operates with analog input signals. The device convert input signals to analog output 0/4..20 mA; 0/2..10 V DC. The device offers a linearisation function for any sensor curves and a simulator function. The integrated transmitter supply 24 V DC max. 30 mA allows the feeding of 2-and 3-wire sensors. 4 alarm outputs for monitoring and controlling are available.

## Technical data

### Power supply

Supply voltage : 230 V AC  $\pm 10$  %  
 : 115 V AC  $\pm 10$  %  
 : 24 V DC  $\pm 15$  %

Power consumption : < 5 VA  
 Operating temperature : -10..+55 °C  
 Conformity : CE

### Inputs

Fault detection : broken line (only resistance measurement)

Input : resistance 0..100 k $\Omega$ ,  
 potentiometer min.1 k $\Omega$ .. max. 100 k $\Omega$

Accuracy : < 0.2 %,  $\pm 1$  Digit

### Outputs

Alarm outputs : relay SPDT  
 <250V AC<250VA<2A; cos Phi  $\geq$  0.3  
 <300V DC<40W<2A

Analog output : 0/4..20 mA burden  $\leq$  500  $\Omega$ ,  
 0/2..10 V burden > 500  $\Omega$  isolated  
 output changes automatically  
 (burden depending)

Fault indication : Broken line or short circuit detection  
 → analog output 0 mA, < 3.6 mA or >21.5 mA  
 → Alarm relays min. or max. configurable

### Display

: Graphic-LCD-Display  
 128 x 64 Pixel,  
 with white LCD backlight

### Case

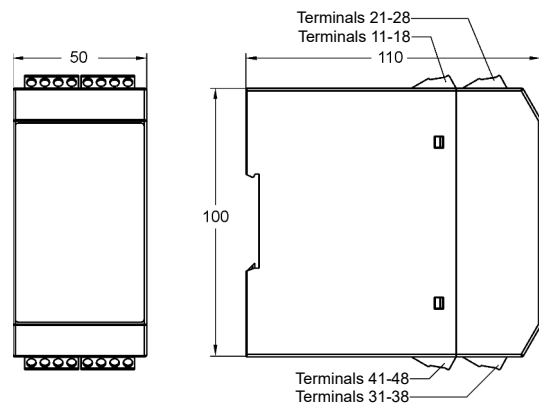
: Polyamide (PA) 6.6 , UL94V-0  
 TS35

Weight : approx. 450 g

Connection : screw terminals 0.14..2.5 mm<sup>2</sup>  
 AWG 26..AWG14

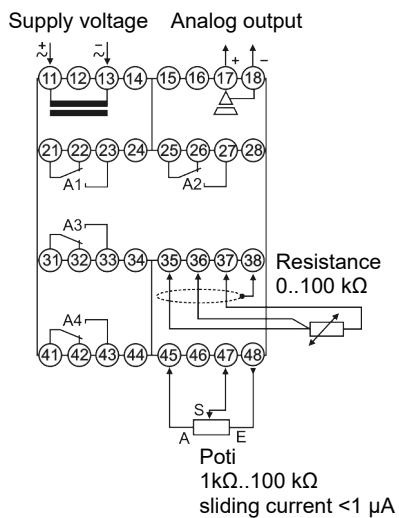
Protection class : case IP30, terminals IP20 acc. to  
 BGV A3

## Dimensions



## Product information

### Connection diagrams



### Ordering code

PMT50 -  1. -  2. -  3. -  4. -  5. -  6.

1. Device type/input	
2	Resistance in the range 0..100 kΩ Poti 1 kΩ..100 kΩ
2. Analog output	
AO	0/4..20 mA, 0/2..10 V DC isolated
3. Alarm outputs	
00	not installed
2R	2 relay outputs, A1, A2 SPDT
4. Alarm outputs	
00	not installed
2R	2 relay outputs, A3, A4 SPDT
5. Supply voltage	
0	230 V AC, $\pm 10\%$ 50-60 Hz
1	115 V AC, $\pm 10\%$ 50-60 Hz
5	24 V DC, $\pm 15\%$
6. Options	
00	without option