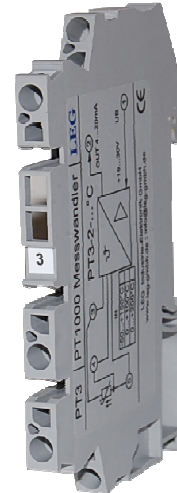


## PT100 / PT1000 Measuring Transducer

**PT3**

Characteristics:

- Universal 2- /3- /4 –wire technique
- Linearity error < 0,1%, -50°C to +500°C
- Temperature range -200°C to +850°C possible
- Analog measuring rate, reaction time < 0,5ms
- Internal sensor fed
- Current output current loop fed
- Mountable on 35mm cap rail TS35
- Clear terminal labeling
- Narrow design
- Mountable side by side via link plug
- Tension spring connection
- Shape 6,2mm
- PB - Power-Bus compatible
- High reliability, 5 years warranty



Description:

The devices of the series PT1 measuring transducers have been developed for proportional converting of Pt100 or Pt1000 signals into temperature-linearized outputs of 4...20mA, current loop fed. Because of its simple construction it is not necessary to configure this unit complicated. **The modules are delivered with a fixed input configuration. This avoids problems during the startup.**

Application:

MSR-technology, Process technology  
 Linearized signal converting proportional to temperature.

**Order-No.:**

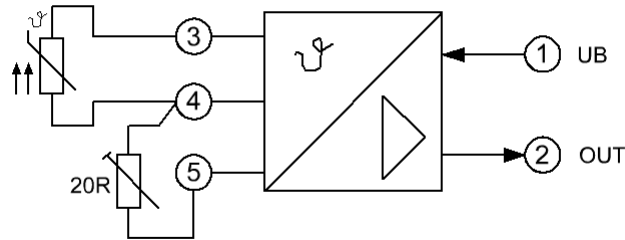
Input:	PT3-	Temperature range:	Output:
Pt100	1	0°C to 100°C*	4...20mA, current loop fed
Pt1000	2	0°C to 200°C*	
		...°C to ... °C, in wording	
		* Standard values	

**Order example:**

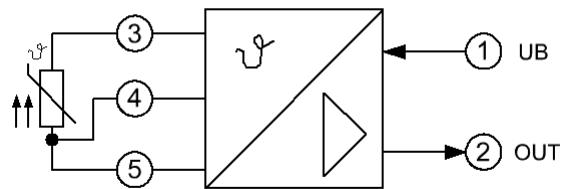
Transducer PT3:  
 Sensor: Pt100  
 Temperature range: 0°C to 200°C

Order-No.: PT3-1-0-200°C

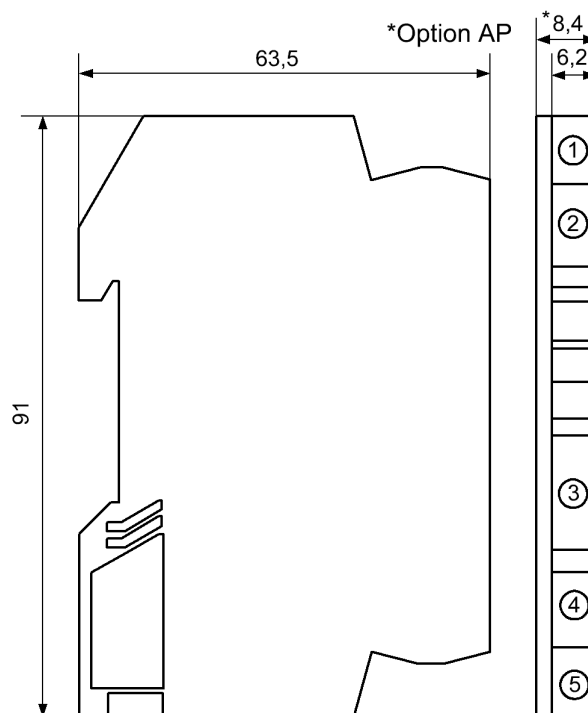
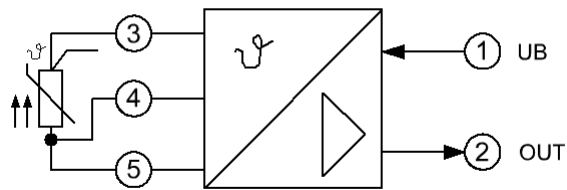
Anschluss für 2-Leiter Technik



Anschluss für 3-Leiter Technik



Anschluss für 4-Leiter Technik



## Technical Data

### Auxiliary power:

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: 19, 2...30VDC, loop powered

### Inputs:

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Temperature sensor : Pt100 or Pt1000  
Measuring current : Ca. 0,8mA ca. 0,25mA

### Outputs:

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Current output : 4...20mA / load resistor max. 750Ω  
Output : Short-circuit proof

### Accuracy:

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Linearity error : < 0, 1%,-50°C...500°C, otherwise < 0, 5%  
Temperature coefficient: < 0, 01 % / K

### General data:

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Operating temperature : 0...50°C  
Storage temperature : -25...+85°C, condensation before putting into operation is not allowed  
CE conformity : EN 61326-1, EN 61000-4-2/3\*/4/5/6\*, EN 61000-6-4  
\* during measurements small deviations are possible

### Body:

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Dimension : See drawing, 6,2mm terminal block body, 6,2x63,5x91mm  
Material : PA 6, 6 / V2  
Protection category : IP20  
Connection : spring force connection 0, 2 – 4mm, inflexible, 0, 2 – 2,5mm, flexible  
Contact load with link plugs max. 24A  
Fixing : Snap-on mounting for norm rail TS35  
Weight : 22g

**Note on safety:**

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Disconnect the power supply before attempting to open the unit.

During the operation of this module it is possible that parts of the module, even there is extra-low voltage, (for example shunt measurement) are under dangerous voltage! Therefore a non-observance of this caution may cause damage of property or physical injury.

Only trained qualified personnel should install or operate the unit. Before installation the qualified personnel should read the documentation and should familiarize themselves with the unit.

If there is visible damage to the body of the unit it should be immediately replaced and not put into operation.



Please ensure that there is a sufficient prevention against electrostatic discharge during installation of the unit.

**Installation Information:**

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Pay attention and make sure the unit is far away from mounted sources that may disturb the device such as magnetic coils, transformers, frequency converters etc.

**Wiring advice:**

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Use only shielded cables. The shield is to be connected extensively to ground. Do not mix power- and signal-wires/cables in the same cable tray.

**Limited warranty:**

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The LEG Industrie-Elektronik GmbH warranted that the product does not have any material or processing defects in a period of 5 years after date of delivery.

It is up to the choice of LEG to repair or to exchange an inoperative unit.

Subsequent damages or any claim for indemnification above the functionality of the unit are excluded.

This limited warranty is only valid if ...

1. the product was installed and put into operation according to the LEG operation documentation;
2. the technical configuration of the power supply was abided;
3. the product was not used for unintended purposes;
4. there were no unauthorized modifications or manipulations, misuse or repairs without previous agreement from LEG .

Our Terms of Trade are based on the "General Conditions for the supply of products and services of the Electrical and Electronics Industry" including the "Complementary Clause: Extended Reservation of Property" of the ZVEI e.V. (German Association of Electrical Manufacturers).

**Miscellaneous:**

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We expressly reserve the right, without previous notice, to correct errors contained in any data of this information brochure, and to make alterations to the program and technical modifications.