

## Transducer LKM 104, Pt100, B-head, 0..10V

### Functional Description

The LKM 104 device is a transducer providing a direct connection to a PLC or PC-AD-Converter card. The temperature-sensitive resistance of a Pt 100 is transformed into a voltage output of 0..10V with high precision. Other resistance sensors (Pt50, Pt1000, Ni100) on request. The transducer LKM 104 can be mounted inside the DIN protection head type B. It operates in 2-/3- wire connection. The working range of the 104 has been tuned ex works according to the needs of the customer between -200°C and 600°C, for instance 0..150°C. For higher precision in transmission the wire resistance of the Pt 100 probe can be adjusted by the zero controller.

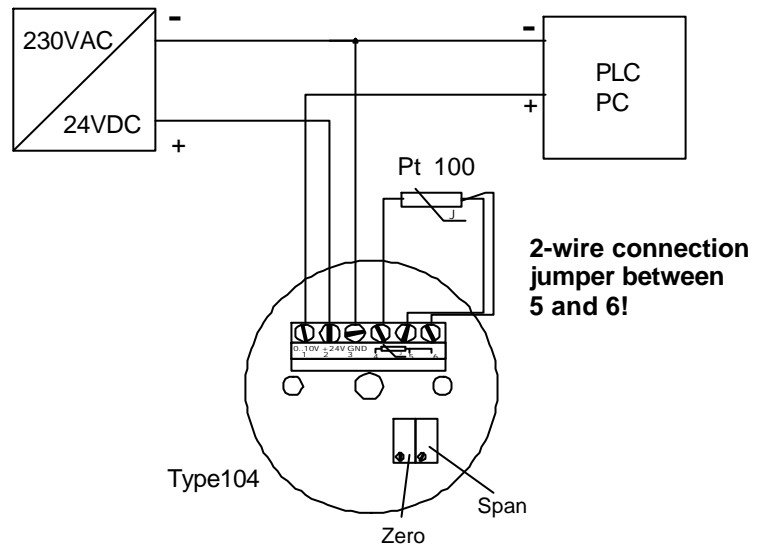


### Technical Data

Input:	Pt 100, DIN EN 60751 2/3-wire circuit
Measuring current Pt 100:	max. 1 mA
Zero:	-200°C...830°C
Span:	minimal 20°C
Output:	0...10V, protected, against short circuit and voltage
Recommended max. pipeline length:	100m (shielded cable!)
min. load impedance:	5kΩ
Supply voltage:	18-36VDC
Dimensions:	Ø 44.5 x 26.5 mm
Weight:	approx. 40g
Mounting:	DIN B-head
Sealing compound:	polyurethane black
Reaction time:	< 0.1s
Vibration:	±5g/10-200Hz
Type of terminals:	screw terminals
Clamping range:	0.13...1.5mm <sup>2</sup>
Protection class:	IP 68
clamps, switch:	IP 10
Linearity error:	< 0.1%FS
Adjustment error:	±0.1°C
Probe break :	12...15V
Short circuit:	0V
Operating temp. range:	- 40°C... 85°C
Storage temp. range:	- 40°C...120°C
Humidity:	< 95% rel. humidity
Warranty:	2 years

EMC  
 Emission and Noise immunity: EN 61326-1:2006  
 EN 61326-2-3:2006

### Schematic Diagram



### Dimensions

