

Transducer LKM 262, Thermocouples, rail assembly, 0..10V

Functional Description

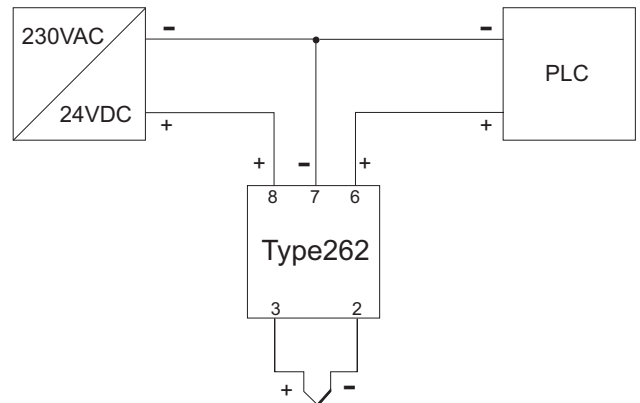
The device type 262 is a digital programmable measuring transducer intended for being mounted on a standard rail. It can be programmed for different thermocouples according to DIN EN 60584-3. It converts the temperature-dependent thermoelectric voltage of the sensors temperature-linearly into a standard signal ranging from 0 to 10V. Here, the temperature compensation is effected within the measuring transducer itself. The measuring transducer can be programmed by means of the universal interface LKM S1 developed by us. Another option is to order and purchase it pre-programmed. An adjusting controller allows minor display corrections on the spot.



Technical Data

Input:	thermocouples K, J, L, T, U, E, N, S, B, R, C in the respective range of definition
Zero:	-200..600°C* depending on thermocouple
Range:	> 50K
Linearity error:	< 0.3K*
Measurement error:	< 0.2%
Error of reference junction:	< +/- 0.5°C
Supply voltage:	15..35VDC, 15..26VAC reverse polarity protected
Max.current consumption:	20mA
Output:	0..10V programmable
Sensor break:	>10V
Short-circuit:	voltage value for room temperature
Responetime:	<0.5s
TC:	<100ppm/°C
Operating temp. range:	-40..85°C
Moisture:	<95%
Mounting:	35mm DIN-rail
Housing:	Polycarbonate 75x25x53mm
Type of terminals:	screw terminals
Clamping range:	0.2..2.5mm ²
Weight:	approx. 60g
Vibration:	5g/10..200Hz

Schematic Diagram



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

* depending on thermocouple