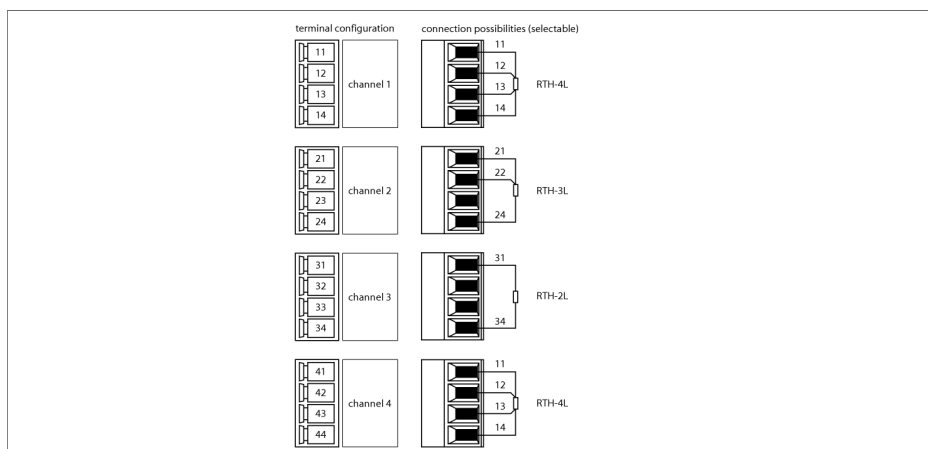




The input module TI41-N is used for the connection of the 2, 3 and 4-wire temperature probes PT100, Ni100 and CU100.

Line compensation of 2-wire temperature resistors is done by means of parametrized resistance values. These values have to be determined first through measurements.

The analogue resistance value is digitized to 16-bit. The temperature is given in Kelvin, the resolution in 0.1 K steps. For conversion to °C, please observe an offset of 273.2.

Parameters such as line monitoring, substitute values etc. can be adjusted for each channel separately and are initialized solely by the master.

- Input module for the connection of RTDs (resistance thermo detectors)
- Complete galvanic separation

Type code	TI41-N	
Ident no.	6884223	
Supply voltage	via module rack, central power supply	
Power consumption	≤ 1 W	
Galvanic separation	Complete galvanic separation	
Number of channels	4-channel	
Input circuits	PT100 Ni 100 Cu100	
Resolution	16 Bit	
max. Messabweichung	≤ max. Messabweichung %	max. Messabweichung
	0.1	bei geschirmtem Signalkabel
	0.5	bei ungeschirmtem Signalkabel
Linearitätsabweichung	≤ 0.01% of full scale der Messspanne	
Temperature drift	≤ 0.002 % / K	
Rise time/fall time	≤ 50 ms (10 ... 90 %)	
Indication		
Operational readiness	1 x green / red	
State/ Fault	4 x red	
Housing material	Plastic	
Connection mode	module, plugged on rack	
Protection class	IP20	
Ambient temperature	-20...+70 °C	
Relative humidity	≤ 95% at 55 °C acc. to EN 60068-2	
Vibration test	acc. to IEC 60068-2-6	
Shock test	acc. to IEC 60068-2-27	
EMC	acc. to EN 61326-1 (2006) acc. to Namur NE21 (2007)	
MTTF	80 years acc. to SN 29500 (Ed. 99) 40 °C	
Dimensions	18x 118x 103 mm	
Weight	75 g	

Dimensions

