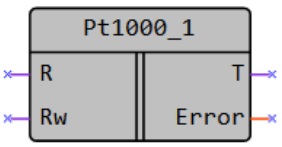
Resistance-to-temperature converter Pt1000



Input	Data type	Description	Range
R	REAL	Resistance, ohm	185.2…3904
Rw	REAL	Wire resistance, ohm	
Output	**Data type**	**Description**	**Range**
T	REAL	Temperature, °C	-200…+850
Error	INT	Conversion error: 0 – no error 1 – input resistance below valid range 2 – input resistance above valid range	0…2

Function

Resistance at the input R is converted to temperature and the calculated value is set to the output T. The calculation is carried out in accordance with IEC 60751:2008.

Set the wire resistance value to the input Rw to compensate a measurement error caused by transmitter wires.

Devices	PR200, SMI200
Version	1.2
Last modification	04.2020