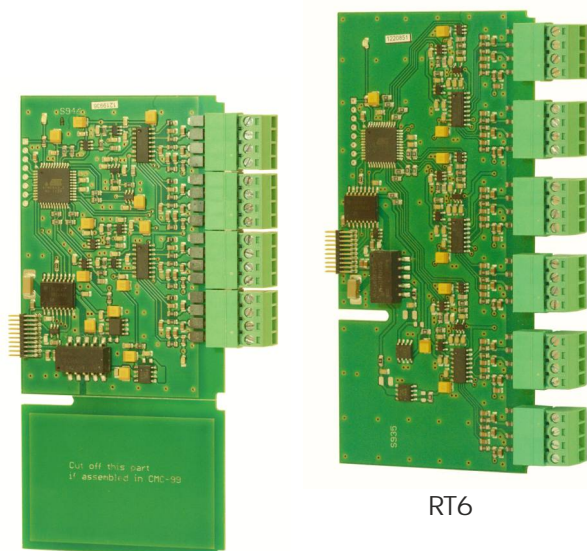


Input modules - RTD



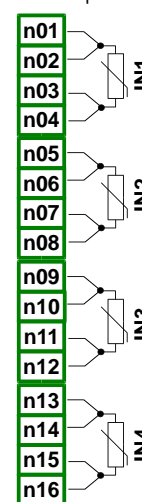
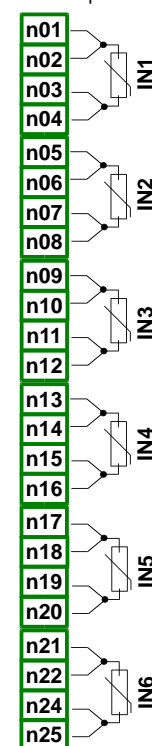
RT4

RT6

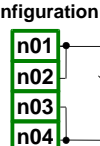
- RT4: 4 RTD inputs
- RT6: 6 RTD inputs

The range of RTD modules consist of 4 and 6 RTD input modules. These inputs are used for temperature measurement using RTD type temperature sensors (by 2-, 3- and 4-wire method), or for resistance measurement in the ranges up to 3k Ω . The RT modules cooperate with many kinds of resistance thermometers and thanks to this, there is no need to change the module when another temperature sensor has been used, the user only needs to change the settings in the MultiCon unit.

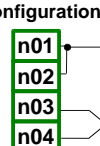
MODULE PIN ASSIGNMENT

RT4
4 RTD inputsRT6
6 RTD inputs

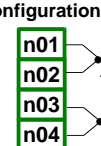
RTD 2-wire configuration



RTD 3-wire configuration



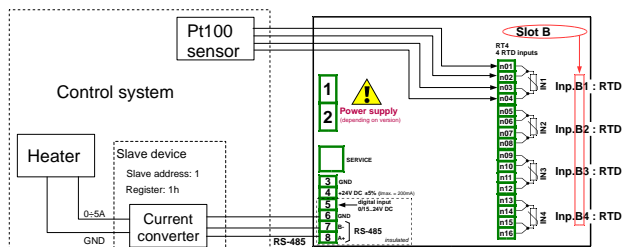
RTD 4-wire configuration



RT4 and RT6 modules parameters are:

- Name - read-only input name given by the device,
- Unit - read-only field which displays „°C“ when Mode parameter is set on temperature measurement, or displays „ “ when Mode parameter is set on resistance measurement,
- Mode - defines which sensor is used for measurement, or what is the resistance measurement range and what is the method of these measurements,
- Low limit - defines measurement level below which in logical channel „Lo“ state will be displayed,
- High limit - defines measurement level above which in logical channel „Hi“ state will be displayed.

Schematic diagram for the RT4 module and MB1 Modbus port



TECHNICAL DATA

	RT4	RT6
Number of inputs	4	6
Measurement range	Pt100, Pt500, Pt1000 (PN-EN); Pt'50, Pt'100, Pt'500 (GOST) Ni100, Ni500, Ni1000 (PN-EN) Cu'50, Cu'100, Cu'50, Cu'100 (PN-83M-53852) resistance: 0 ÷ 300 Ω , 0-3 k Ω	Pt100, Pt500, Pt1000 (PN-EN); Pt'50, Pt'100, Pt'500 (GOST) Ni100, Ni500, Ni1000 (PN-EN) Cu'50, Cu'100, Cu'50, Cu'100 (PN-83M-53852) resistance: 0 ÷ 300 Ω , 0-3 k Ω
Temperature range	-100 ÷ 600°C (Pt100, Pt500, Pt1000) -200 ÷ 600°C (Pt'50, Pt'100, Pt'500) -50 ÷ 200°C (Cu'50, Cu'100); -200 ÷ 200°C (Cu'50, Cu'100) -60 ÷ 180°C (Ni100, Ni500, Ni1000)	-100 ÷ 600°C (Pt100, Pt500, Pt1000) -200 ÷ 600°C (Pt'50, Pt'100, Pt'500) -50 ÷ 200°C (Cu'50, Cu'100); -200 ÷ 200°C (Cu'50, Cu'100) -60 ÷ 180°C (Ni100, Ni500, Ni1000)
Resistance precision	0,1% @ 25°C	0,1% @ 25°C
Connection method	2, 3 and 4 wire (switched manually)	2, 3 and 4 wire (switched manually)
Sampling period	1 s *	1 s *
Weight	42 g	57 g
Part number	M99-RT4-001	M141-RT6-001

* CMC reads data from modules every 100 ms