RESI-2RTD-MODBUS, RESI-2RTD-ASCII

Our ultra slim IO module with two high precision temperature sensor inputs (PT100, PT1000,NI120)

Our series of ultra-slim IO modules (only 17.5mm width!) is designed for remote applications, to collect or control only a few IO signals. All our modules communicate with a RS232 or RS485 interface via MODBUS/RTU slave protocol. Our RESI-xx-ASCII series offers additionally a text oriented ASCII protocol.

Those modules are used in building automation to collect two temperatures from RTD sensors like PT100, PT200, PT500, PT1000 or NI120. Each channel can be configured individually. The module is used in applications like closed loop control for HVAC units, monitoring of room temperatures, but also for industrial process automation

**RESI-2RTD-MODBUS**
RESI-2RTD-ASCII

RESI-2RTD-MODBUS

MODBUS/RTU module to read two RTD temperature sensors via serial bus, configuration for each channel: RTD sensor type: PT100, PT200, PT500, PT1000, NI120, Measurement current: 100µA, 250µA, 500µA, Linearization: Europa, Amerika, Japan, ITS-90, Unit: Celsius, Fahrenheit, Kelvin, offset for zero point, integrated average calculation for each channel, Resolution: 24 bit ADC, Precision: +/-0,1°C, Speed: ca. 1Hz, Sensor connection: 2 wire, 3 wire or 4 wire connection, Host communication: via RS232 or RS485 with MODBUS/RTU slave protocol, Host baud rates: 9600, 19200, 38400 or 57600Bd, no, even or odd parity, 8 data bits, 1 stop bit, the sensor inputs are galvanically insulated to the serial interfaces, Configuration and testing of module with free PC software MODBUS configurator, Weight: 65g, Dimension (LxWxH): 17,5x90x58mm, Power supply: 12-48V=, Power consumption: <0.7W, Mountable onto a EN50022 DIN rail.
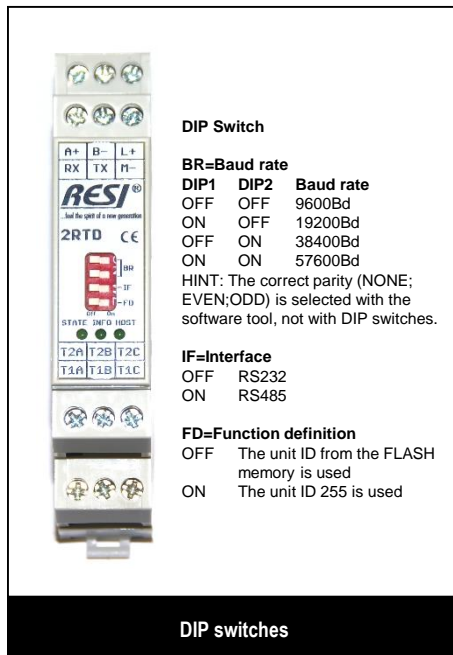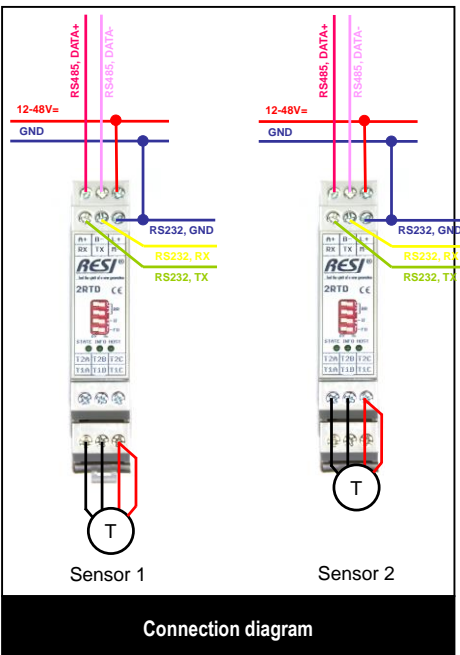
RESI-2RTD-ASCII

MODBUS/RTU or ASCII module to read two RTD temperature sensors via serial bus, configuration for each channel: RTD sensor type: PT100, PT200, PT500, PT1000, NI120, Measurement current: 100µA, 250µA, 500µA, Linearization: Europa, Amerika, Japan, ITS-90, Unit: Celsius, Fahrenheit, Kelvin, offset for zero point, integrated average calculation for each channel, Resolution: 24 bit ADC, Precision: +/-0,1°C, Speed: ca. 1Hz, Sensor connection: 2 wire, 3 wire or 4 wire connection, Host communication: via RS232 or RS485 with simple ASCII strings or MODBUS/RTU slave protocol, Host baud rates: 9600, 19200, 38400 or 57600Bd, no, even or odd parity, 8 data bits, 1 stop bit, the sensor inputs are galvanically insulated to the serial interfaces, Configuration and testing of module with free PC software MODBUS configurator, Weight: 65g, Dimension (LxWxH): 17,5x90x58mm, Power supply: 12-48V=, Power consumption: <0.7W, Mountable onto a EN50022 DIN rail.
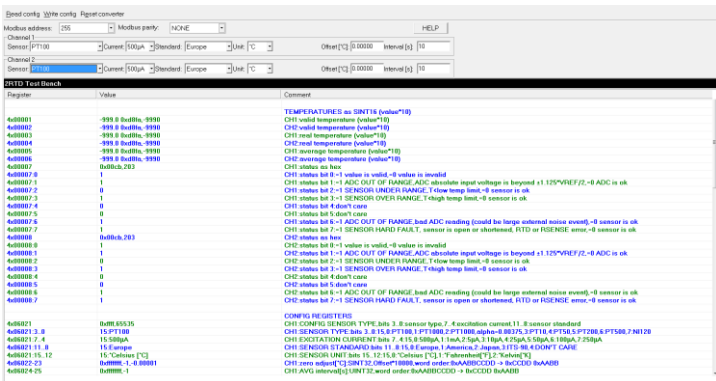
RESI-MODBUS-CONFIGURATOR

Consisting of a free of charge software to configure our IO modules. Download from our homepage www.RESI.cc.

DIP Switch

BR=Baud rate

DIP1	DIP2	Baud rate
OFF	OFF	9600Bd
ON	OFF	19200Bd
OFF	ON	38400Bd
ON	ON	57600Bd

HINT: The correct parity (NONE; EVEN;ODD) is selected with the software tool, not with DIP switches.

IF=Interface
OFF RS232
ON RS485

FD=Function definition
OFF The unit ID from the FLASH memory is used
ON The unit ID 255 is used

Connection diagram

Sensor 1   Sensor 2

DIP switches

AT A GLANCE

- Ultra-slim module size: only 17.5mm width
- Host communication: via RS232 or RS485 with MODBUS/RTU or ASCII serial protocol
- Host baud rates: 9600, 19200, 38400 or 57600Bd, no, even or odd parity, 8 data bits, 1 stop bit
- 2 sensor inputs for RTD sensors: PT100, PT200, PT500, PT1000, NI120
- Measurement resolution: +/-0.1°C
- Display unit: °Celsius, °Fahrenheit or °Kelvin
- Integrated average calculation per channel
- Power supply: 12-48V=
- Power consumption: <0.7W
- Size (LxWxH): 17.5x90x58mm
- Mountable onto a EN50022 DIN rail