

NT18B07: 7 Kanal RS485 Temperatur Sensor

NT18B07 Description



- Operating current ranges from 8 to 13 mA, depending on external connections.
- The device supports MODBUS RTU commands using function codes 03 and 06.
- By adjusting the R485 address, up to 247 modules can be cascaded; if exceeding 16, an R485 repeater is recommended.
- A maximum of 8 temperature sensors can be connected at once.
- Temperature measurement spans from -55°C to +125°C (-67°F to +257°F), with an accuracy of $\pm 0.5^{\circ}\text{C}$ between -10°C and 85°C.
- Resistance value: 10K
- Resistance accuracy: $\pm 1\%$
- Resistance B value: $3950 \pm 1\%$
- Wire specification: 2651 26# parallel resistance, temperature resistance 105°C
- Connector model: XH2.54-2P
- Probe: without mounting holes
- Supply voltage: 6-24V

B3590 10K 1% NTC thermal sensor



- Product type: NTC 10K / B3590 1%
- Temperature range: -50°C to 125°C (-58°F to 257°F)

NT18B07 Modbus settings

Default settings: SlaveID: 1, 9600 baud, parity: N,8,1

holding register addresses	Number of registers	Description	Unit	Note
0x0	1	CH1 temperature sensor	0.1 °C	0xF555 (-2731): Sensor Error
0x1	1	CH2 temperature sensor	0.1 °C	0xF555 (-2731): Sensor Error
0x2	1	CH3 temperature sensor	0.1 °C	0xF555 (-2731): Sensor Error
0x3	1	CH4 temperature sensor	0.1 °C	0xF555 (-2731): Sensor Error
0x4	1	CH5 temperature sensor	0.1 °C	0xF555 (-2731): Sensor Error
0x5	1	CH6 temperature sensor	0.1 °C	0xF555 (-2731): Sensor Error
0x6	1	CH7 temperature sensor	0.1 °C	0xF555 (-2731): Sensor Error
0x8	1	CH1 temperature correction value	0.1 °C	>0: increase, <0: decrease, default:0
0x9	1	CH2 temperature correction value	0.1 °C	>0: increase, <0: decrease, default:0
0xA	1	CH3 temperature correction value	0.1 °C	>0: increase, <0: decrease, default:0
0xB	1	CH4 temperature correction value	0.1 °C	>0: increase, <0: decrease, default:0
0xC	1	CH5 temperature correction value	0.1 °C	>0: increase, <0: decrease, default:0
0xD	1	CH6 temperature correction value	0.1 °C	>0: increase, <0: decrease, default:0
0xE	1	CH7 temperature correction value	0.1 °C	>0: increase, <0: decrease, default:0
0x00FD	1	Automatic temperature report	Second	0: (default) query function, 1-255 report time (1 - 10 seconds)
0x00FE	1	RS485 address (station address)	-	Read address: 0x00FF, write address 1-247, default: 1
0x00FF	1	Baud rate	-	0:1200, 1:2400, 2:4800, 3:9600 (default), 4:19.200, 5: factory reset

Modbus topics on lamaPLC

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• lamaLib: energyMeterToModbusRegs	2024/11/18 21:55	tia , scl , lamalibsimatic , source code , energy meter , modbus , register , word
• lamaPLC Communication: Modbus	2025/11/19 21:42	modbus , communication , bus , modicon , standard , rtu , tcp , multimaster , coil , register
• lamaPLC: DM56A04 / DM36B06 digital tube display with Modbus Communication	2025/11/23 21:24	dm56a04 , dm36b06 , eletchsup , 7-segment display , modbus , rtu , modbus rtu , arduino
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• LamaPLC: Humidity/temperature / air-pressure / gas / air-quality sensors and modules for Arduino	2025/09/23 19:08	pta8c04 , sensor , modbus , rtu , rs-485 , communication , platine , um72
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• LamaPLC: S7-1500 and Sicam Q200 Modbus TCP communication	2023/06/24 22:42	bus , communication , s7 , simatic , s7 1500 , s7 1200 , scl , uicpal , temperature , humidity , modbus , example , download , tia portal
• lamaPLC: S7-1500 and UICPAL Temp.humi.sensor Modbus TCP communication	2023/06/19 21:24	tm1650 , stc8g , tp8485e , hyuduo5x1b64edtk1244 , 7-segment , display , modbus , rtu , modbus rtu , arduino
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• Simatic Modbus S7 error- and statuscodes	2025/11/13 22:59	waveshare , converter , modbus , modbus rtu , modbus tcp , communication
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