PTA9B01 PT100 temperature sensor

PTA9B01 PT100 RS485 Acquisition module Description:

Working voltage: DC 8-25V(Recommend DC 12V)

Working current: 8-13MA

MODBUS RTU protocol, 03 read command, 06 write command.

Serial port baud rate: 9600 (default), N, 8, 1

By modifying the 485 address, up to 247 modules can be cascaded (more than 16 please use R485 repeater)

Can read temperature and PT100 resistance value

Adapted sensor: PT100 3-wire or 2-wire sensor

Temperature measurement range: A version -20℃ to +400℃; B version -20℃ to +220℃. It is recommended to select a version with a smaller range within the range that meets the measurement.

Temperature measurement accuracy: 1%.

Size: 60 X 30 X 16MM

Weight: 16g

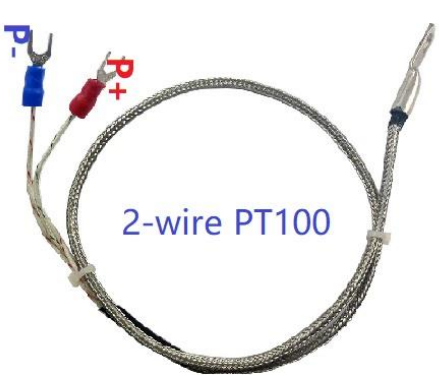
MODBUS RTU protocol please refer to : " PTA9B01 PT100 RS485 sensor protocol "

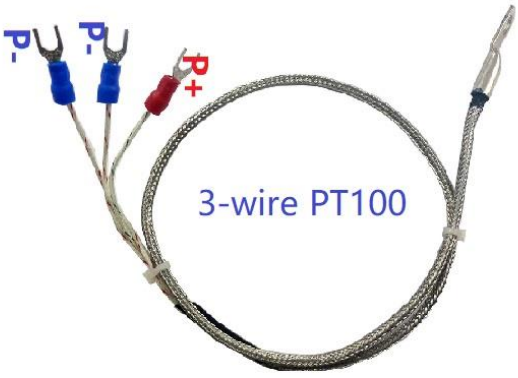
PT100 sensor specifications:

Type: PT100
Probe Diameter: 6.5mm
Probe Length: 30mm
Probe Material : Stainless steel
Cable Length: 0.5M
PTFE sheath 3-Wire type
Temperature -200~550°C degree

shell:
Material: ABS
Outer diameter: 73*36*24MM
Inner diameter: 70*33*21MM
Weight: 16 grams

Wiring diagram:





3-wire probe wiring mode: the red wire is connected to P+, and the other two wires of the same color are connected to P- and GND (the ports are not distinguished).

Note: Please remove the jumper, otherwise it will affect the accuracy

2-wire probe wiring mode: red wire connects to P+, blue wire connects to P-.

Note: The jumper must be short-circuited, otherwise it cannot be measured! ! !

RS485 bus wiring diagram: