WSDP

RS485
Temperature transducer

Description

WSDP is a very reliable temperature and humidity transducer, it for multi-use of measurement application.

ABS enclosure with vents, can be directly installed on the rail. WSDP support standard Modbus-RTU protocol, can easy access exsiting SCADA system. Blue Jay also provide customized design services to make different enclosure and functions.

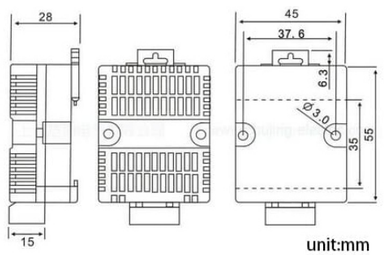
Features

- Industrial-grade MCU and high precision sensor.
- Realize low-temperature and humidity status online monitoring.
- RS485 communication port, MODBUS-RTU protocol.
- Wide Range non-polar DC Auxiliary Power Supply.

Technical characteristics

Working power	
Power supply	9~28VDC (default DC12V) Accept customized power range
Consumption	<0.1W
Measurement and ability	
Temperature range	WSDP-1: -40-80°C WSDP-2: -20-60°C WSDP-3: 0-50°C
Humidity range	0-100% RH
Accuracy	Temperature: ≤±0.3°C @25°C Humidity: ±3%RH @(20-90%RH, 25°C)
Response	Less than 2sec
Communication	
Port	RS485 MODBUS-RTU
Baud Rate	9600
Default address	1
Other	
Enclosure material	ABS
Dimensions	65*46*29mm (L*W*H)
Installation method	Din-rail installation (standard 35mm)

Dimension



Other styles

Please contact Blue Jay Sales Team for ODM service

Temperature Transducer

BLUE JAY®
Technology of Electrical Automatic

ZP-02

Head mounted
Temperature transducer

Description

The ZP series Temperature Transmitter is designed to meet common Single Point measurement application requirements. This transmitter can easily work with a variety of sensors (RTDs and thermocouples) and thermowells. It provided in a head mount configuration suitable for installation in a wide variety of connection heads and housings. A PC-programmable interface is available, providing an easy-to-use configuration method from any PC.

Features

- Support variety of sensors:
  TC(K,E,S,B,R,J,T,N);
  RTD (PT100,PT200,PT500,PT1000,Cu50);
  R(0-400Ω,0-4000Ω)
  mV(-80-+80mV)
- Input 2, 3, 4 wire RTDs, thermocouple, millivolt, ohm
- Support programmable setting
- Current output can be set inverse ratio output
- Input/output isolation tested to 500 Vac rms
- Less than 1 seconds update time
- Less than 5sec response time for sensor short/fusing alarm
- Custom alarm and saturation levels

Technical characteristics

Power supply:	
Power Supply	8VDC~30VDC
Min. Working Voltage	8.5VDC
Measurement:	
Output signal types	4-20mA / 20-4mA
Response Time	< 1S (0-90%,100%-10%)
Precision	±0.05%
Temp. Drift	0.01% per Celsius
Volt fluctuation influence	±0.005% X span / below V DC
Cold junction compensation:	
Internal CJC	±1C
External CJC	PT100
Isolation:	
Insulation Resistor	>100MΩ / DC500V between the input / output
Isolation Strength	AC1500v 1min between the input / output
Broken Alarm Detecting	act in 5μA
Input signal:	
Load Capacity	RL=(U-8.0v) / 0.022A
Input Detecting Current	0.2mA(2w/3w/4w)
Input impedance	>5M ohm
Other:	
Ambient Temp. / Humi.	-40 ~ 85 C / ≦95% RH
Calibrating Ambient Temp.	25±2 C
Dimensions	Φ45mm x 20mm
Terminal Wiring Way	Screw
Comm Interface	Double pins interfaces

Dimension