



DT series-Digital Temperature & Humidity module

Haiwell particular special temperature measurement module

Product Features:

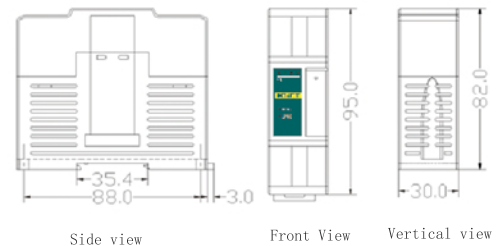
- **H04DT:** Supports 4-channel DS18B20/RW1820 temperature sensor, DS1990 sensor and SHT1x SHT7X temperature and humidity sensor, it can measure the temperature and humidity at the same time; It can be used to accurately measure the temperature and humidity within 200 meters, furthermore, the collection of temperature and humidity values without error, low cost.
- **H32DT:** Supports 32-channel DS18B20/RW1820 temperature sensor, built-in RS485 COM port, support remote function, it can be used as remote IO module; And it is widely used in coal mines, tunnels, freezing, libraries, archives and other multi-point temperature measurement environment and other environmental monitoring system.

Performance Index

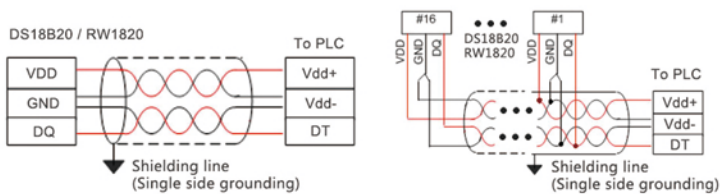
Item	H04DT	H32DT
Input Interface	SHT1x / SHT7x, DS18B20/RW1820/DS1990 Sensor	DS18B20/RW1820/DS1990 Sensor
Input Number	4 channels 4 point	2 channels, each 16 points
Communication Interface	N/A	RS485
Communication Speed	N/A	2400~115200bps Baud rate
Communication Protocol	N/A	Standard Modbus
Power Supply Mode	Internal power supply of host PLC	Internal power supply of host PLC or independent external power supply 24VDC
Measuring Distance	≤200m (wire resistance 50Ω)	≤500m (wire resistance 50Ω)
Measuring Range	DS18B20: -55~+125℃ SHT11: -40~123.8℃ 0~100%RH	DS18B20: -55~+125℃
Isolation Method	No isolation between channels, analog and digital optoelectronic isolation	

Products Model and Dimensions

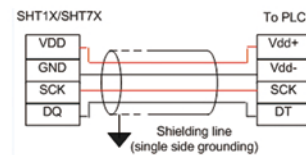
Model	Specification	COM port	Dimension
H04DT	4 Channels of DS18B20/RW1820 /DS1990 sensor or SHT1X/SHT7X sensor	N/A	30*95*82mm
H32DT	32 channels of DS18B20/RW1820/DS1990 sensor	RS485 support remote I/O	30*95*82mm



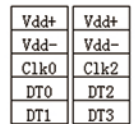
Product Wiring Diagram



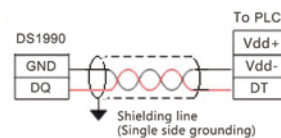
Single / Multiple DS18B20&RW1820 sensor wiring



SHT1X/7X sensor wiring



H04DT wiring



DS1990 Sensor wiring



H32DT wiring

Product Environmental Specification

Operating Temperature: 0~+55℃ storage temperature: -25~+70℃
Operating Humidity: 5~95%RH, without condensation
Anti-vibration Ability: 10~57Hz amplitude 0.075mm, 57Hz~150Hz acceleration 1G, each 10 times for three-axis direction of X、Y、Z
Anti-shock Ability: 15G, last 11ms, each 6 times for three-axis direction of X、Y、Z
Anti-jamming Ability: DC EFT: ±2500V, surge: ±1000V
Anti-voltage Endurance Ability: DC terminal to ground terminal 500VAC, 1 minute
Insulation Resistance: over 5MΩ (all input / output points to time 500VDC)
Operating Environment: dust proof, moisture proof, anti-corrosion, avoid electric shock and external shocks etc.



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