PAQUIN SENSORS
A Division of The Paquin Company™

Humidity & Temperature Transmitter

- Integrated humidity and temperature sensors
- 4...20mA and 0...10VDC output options
- RS-485 type M interface with optional Modbus
- One-way breathing vent for waterpr0of and dustproof enclosure
- Fast response time
- Long term stability

About

The P427 is widely used to monitor and maintain fresh air, energy savings, emission standards and more within a host of industry applications. Common critical parameter measurements include duct temperature, humidity, dew point temperature, enthalpy and wet bulb temperature.

Applications

- ✓ HVAC
- ✓ Data Centers
- ✓ Food Production
- ✓ Pharmaceuticals
- ✓ Commercial Buildings
- ✓ Parking Garages
- ✓ Museums
- ✓ Laboratories
- ✓ Schools
- ✓ Hospitals

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Build Your Part Number

Series P427

Series
P427

Output Signal - *select one*		Supply
A	4 ... 20 mA	12 ... 24 VDC
C	0 ... 10 VDC	15 ... 24 VDC

Technical Parameters		
Electrical	Outputs	4...20mA (supply 12...24VDC); 0...10VDC (supply 15...25VDC)
	Load Capacity	Two wire system less than VDD7V / 0.02; Three wire system (current type) less than 250Ω, Voltage type greater than 10KΩ
	Electrostatic Protection	Contact discharge = 6kV; Air discharge = 8kV
	Surge Protection	±2000V, waveform 1.2/50us, internal resistance 12Ω
	Terminal blocks	Recommended 16AWG minimum
Environmental	Temperature	–40°C...+80°C selectable Accuracy: ≤ ±0.3°C @ 25°C / ≤ ±0.5°C across full temperature range Long Term Stability: <0.1°C per year Response Time: < 15S
	Humidity	0% RH ~ 100% RH Accuracy: ≤ ±3% (20...80%) / ≤ ±5% across full humidity range Long Term Stability: <0.5% relative humidity per year Response Time: < 12S = 63%
	Dew Point Temperature	–40°C...60°C Accuracy: According to the temperature and humidity calculation, ≤ ± 1.0°C typ. Maximum uncertainty: ≤ ± 2.0°C
	Enthalpy	-40...+46 Kj/Kg Accuracy: According to the temperature and humidity calculation, ≤ ± 1.0°C typ. Maximum uncertainty: ≤ ± 2.0°C
	Wet Bulb Temperature	-40...60°C Accuracy: According to the temperature and humidity calculation, ≤ ± 1.0°C typ. Maximum uncertainty: ≤ ± 2.0°C
	Ingress Protection	IP65
	Housing Material	ABS & PC plastic
	Storage Temperature	-40...80°C

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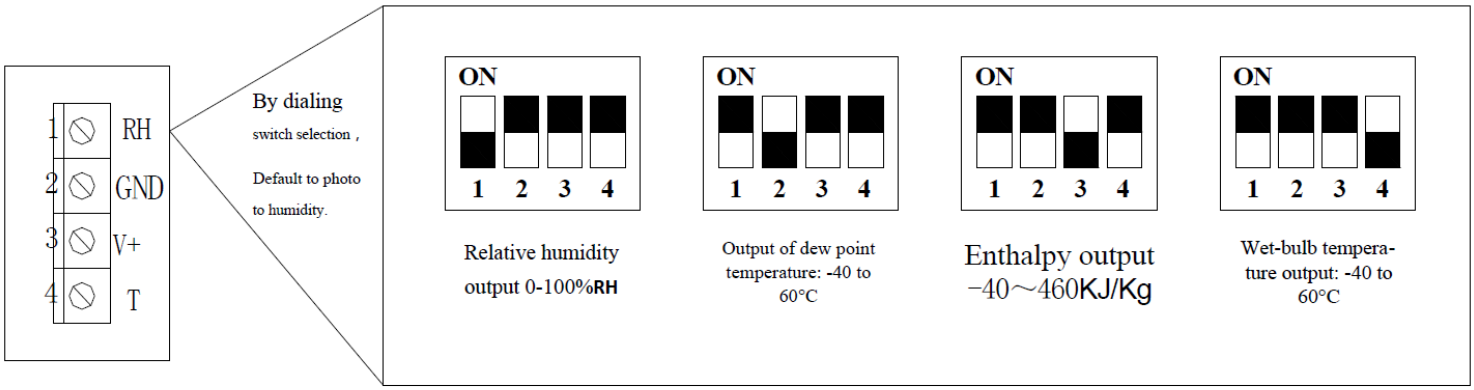
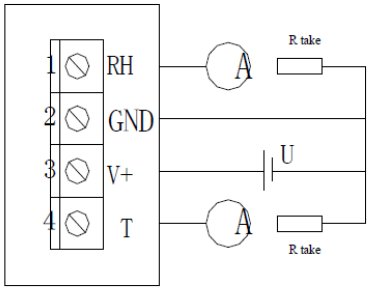
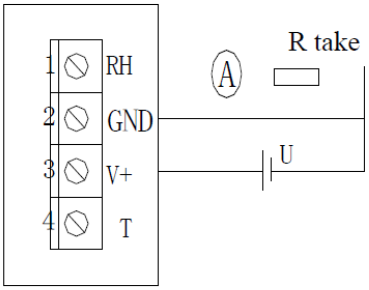
Technical Parameters

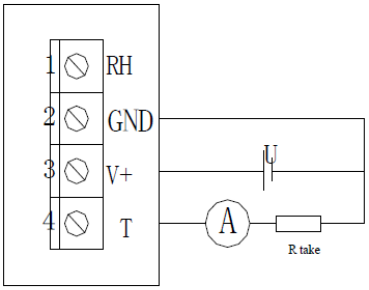




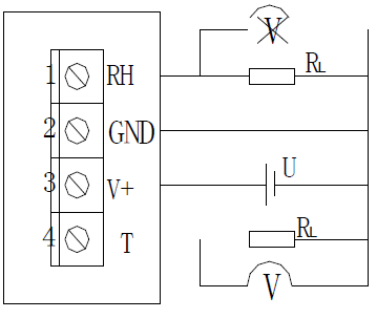
Three-wire current type temperature and humidity or dew point,enthalpy, and wet-bulb temperature measurement



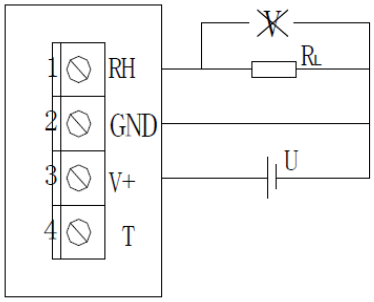
Three-wire current type humidity or dew point, enthalpy, wet-bulb temperature measurement



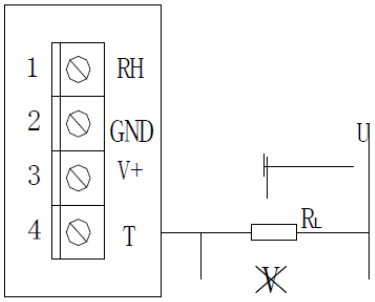
Single temperature measurement of three wire current type



Three-line voltage temperature plus dew point,enthalpy and wet bulb temperature measurement



Measurement of Three-Wire System Electrical Voltage Type Humidity or Dew Point, Enthalpy, and Wet-Ball Temperature



Single temperature measurement of three-line voltage type

1、 During installation and use, avoid direct sunlight or direct contact with heat sources/cold sources.

2、 Always turn off the power supply when installing or replacing transmitters.

3、 Direct connection to 220VAC power supply may damage the product.

4、 The recommended product should be calibrated every 12 months.

5、 Some technical specifications of the product may be modified. Please refer to the specifications on the product label for accurate information.