

RELATIVE HUMIDITY AND TEMPERATURE TRANSMITTERS AND CONTROLLERS

ETRANS – HTC25 Datasheet

Precise Measurement,
Ultimate Control



RELATIVE HUMIDITY AND TEMPERATURE

MODEL Etrans- HTC25



Description

HTC25 Series devices are electronic devices that allow relative humidity and temperature information in industrial environments to be converted into a standard analog signal and sent to another system. During the design phase, compliance with international standards, reliability, and ease of use were prioritized. Therefore, they are easily used and preferred devices for very different applications in many sectors.



General Features

- 2 pieces of 4-Digit Numeric Displays
- 2 pieces of LED Displays
- 2 pieces of Analog Outputs (0/4-20 mA, 0/2-10V)
- 2 pieces of Programmable Solid-State Relay Outputs
- RS485 Communication Interface
- 100-240 Vac/dc Universal or 24 Vac/dc Supply
- Isolation Between Input and Output Modules
- Wall-Mounted and Wired Mounting Options
- 3 Different Protective Filter Options
- Stepped Sensor Heating Function
- Sensor Fault Detection and Routing
- Four Different Relay Functions for Control or Alarm
- Standard MODBUS RTU Communication Protocol
- Adjustable Scale for Analog Outputs
- 100 ms Sampling and Control Cycle

Technical Specifications

Supply Voltage (PS)	100-240V AC/DC (+10% / -15%) or 24V AC/DC (+10% / -20%).
Power Consumption	4W, 6VA
Measurement Range	Temperature: -40...+120°C / Relative Humidity: 0...100%Rh
Analog Outputs	Current: 0/4-20mA (RL ≤ 500 Ω) / Voltage: 0/2-10V (RL ≥ 1M Ω)
Solid-State Relay Outputs	250Vac, 80mA, NO Contact
Resolution	Temperature: 0.1°C / Relative Humidity: 0.1%Rh
Accuracy (Temperature)	+/-1°C (-20°C...+70°C), +/-2°C (-40°C...+120°C)
Accuracy (Relative Humidity)	+/-2%Rh (10%Rh...90%Rh), +/-4%Rh (0%RH...100%RH)
Repeatability	Temperature: +/-0.1°C / Relative Humidity: +/-0.1%Rh
Sampling Period	100 ms
Ambient Temperature	Device: -10°C...+60°C / Sensor: -40°C...+120°C
Storage Temperatur	-20°C...+70°C
Memory	100 Years, 1,000,000 Refreshes
Weight	220gr

Device Connection

Communication Interface	Data B, Data A, Data G (Terminals 1, 3, 4)
Solid-State Relay Outputs	C, 1, 2 (Terminals 5, 6, 7)
Analog Outputs	1, 2 (Terminals 8, 9)
Supply Voltage	Z (Terminals 11, 12)

Electrical Wiring Diagram

1	2	3	4	5	6	7	8	9	10	11	12
Data B	Data A	Data C	Rly 1	Rly C	Rly 2	Out 1 °C	Out - °C	Out 2 %Rh	NC	L	N
Communication Interface			Semiconductor Relay Outputs			Analog Outputs			Supply Voltage		

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