

# Relative Humidity and Temperature Transmitters and Control Devices



## HTC11

( For Intense Humidity Environment Of 90% And Above )

HTC11 Series devices are electronic devices that allow over 90% relative humidity and temperature data in industrial environments to be sent to another system by converting it into a standard analog signal. They are ergonomic devices whose compliance with international standards, reliability and ease of use have been ensured at the design stage. For this reason, they are devices that can be used easily and preferred for many different applications in many sectors.

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### Device Features

- 2 pcs 4 Digit Numeric Display
- 2 pcs Led Display
- 2 pcs Analog Output (0/4-20mA, 0/2-10V)
- 2 pcs Programmable Semiconductor Relay
- RS485 Communication Interface
- 100-240Vac Universal or 24Vac/dc Supply
- 40...+120°C Sensor Temperature Range
- Isolation Between Input/Output Modules
- Wall Type, Channel Type and Wired Type Mounted Options
- 3 Different Protective Filter Options

- Gradual Sensor Heating Function
- Sensor Error Detection and Redirection
- 4 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

<b>Supply Voltage (PS)</b>	100-240Vac/dc +10%, -15% 24Vac/dc +10%, -20%
<b>Power Consumption</b>	4W, 6VA
<b>Measurement Range</b>	Temperature : -40...+120°C Relative Humidity : 0...100%Rh
<b>Analog Outputs</b>	Current : 0/4-20mA ( RL≤500Ω ) Voltage : 0/2-10V ( RL≥1MΩ )
<b>Semiconductor Relay Outputs</b>	250Vac, 80mA, NO Contact
<b>Resolution</b>	Temperature : 0,1°C Relative Humidity : 0,1%Rh
<b>Accuracy</b>	Temperature: +/-1°C ( -20°C...+70°C ) +/-2°C ( -40°C...+120°C ) Relative Humidity : +/-2%Rh ( 10%Rh...90%Rh ) Humidity : +/-4%Rh ( 0%RH...100%RH )
<b>Repeatability</b>	Temperature : +/-0,1°C Relative Humidity : +/-0,1%Rh
<b>Sampling Period</b>	100 ms
<b>Operating Temperature</b>	Device : -10°C...+60°C Sensor : -40°C...+120°C
<b>Storage Temperature</b>	-20°C...+70°C
<b>Memory</b>	100 Years, 1000.000 Renewable
<b>Weight</b>	220 gr

### Device Connection

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

HTC11 - / °C RH / / /

**Supply Voltage :** \_\_\_\_\_  
 0 = 100-240Vac/dc ( Universal )  
 1 = 24 Vac/dc

**Communication Interface :** \_\_\_\_\_  
 0 = N/A  
 3 = RS485 Communication Unit

**Analog Outputs :** \_\_\_\_\_  
 0 = N/A  
 1 = 0/4-20 mA Current Output  
 2 = 0/2-10V Voltage Output

**Mounting Shape :** \_\_\_\_\_  
 0 = Wall Type  
 1 = Channel Type  
 2 = Cable Type

**Sensor Rod Length :** \_\_\_\_\_  
 1 = 10 cm  
 2 = 20 cm  
 3 = 30 cm

**Filter Type :** \_\_\_\_\_  
 2 = PTFE ( Teflon )

**Temperature Range :** \_\_\_\_\_  
 0 = 0....+60 °C  
 1 = -40....+60 °C  
 2 = -40....+120 °C

**4** **Sensor Connection :** \_\_\_\_\_  
 0 = N/A  
 1 = Flange  
 2 = 1/2" Fixed Raccord  
 3 = 1/2" Adjustable Raccord

**Cable Length :** \_\_\_\_\_  
 0 = N/A  
 1 = 2 m  
 2 = 5 m  
 3 = 10 m  
 4 = 15 m  
 5 = 20 m  
 6 = 25 m  
 7 = 30 m  
 8 = 35 m  
 9 = 40 m