HUMIDITY + TEMPERATURE CONTROLLER

HTC206



72 x 72mm

Features :

Humidity

- 4 digit LED display (Green)
- RH Sensor input
- Sensor enclosed with unit
- ON-OFF control
- 10A SPDT Relay output
- 0% - 100% Humidity control range

Temperature

- 4 digit LED display (White)
- RTD Input (PT100)
- ON-OFF / PID control
- Auto tune / Self tune PID
- 10A SPDT / 12V SSR output

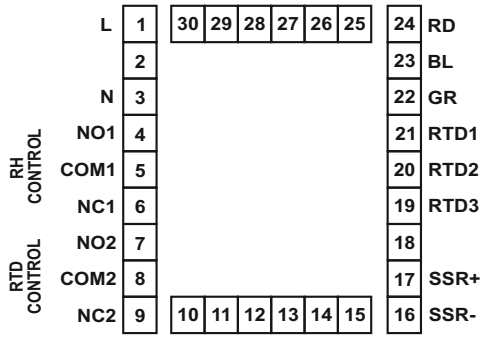
Technical specifications

Display specifications	
Display	4+4 Digits
Height of digit	White digit : 16.7mm, Green digit : 9mm, 7 segment LED display
LED indication	OUT 1 : RH control ON ; OUT 2 : RTD control ON ; AT : Auto tune
Input specifications	
Input signal	RH (HS-A-100), (RTD PT100)
Sampling time	250ms
Input filter (FTC)	0.2 to 10.0 sec
Resolution	0.1 / 1 for RH / RTD inputs
Temperature unit	°C / °F selectable
Humidity unit	%Rh
Output specifications	
RH control output	**Relay contact (SPDT) :** 10A @ 250V AC / 30V DC, resistive
RTD control output (Relay or SSR user selectable for RTD control)	**Relay contact (SPDT) :** 10A @ 250V AC / 30V DC, resistive SSR drive output (Voltage pulse) 12V DC, 50mA
Functional specifications	
Control action	PID control with auto tuning , ON - OFF control, (For RH: ON-OFF control only)
Proportional band (P)	1.0 to 400.0°C
Integral time (I)	0 to 9999 sec
Derivative time (D)	0 to 9999 sec
Cycle time	0.1 to 99.9 sec
Hysteresis width	0.1 to 99.9°
Auxiliary supply specifications	
Supply voltage	90 to 270V AC / DC @ 50 / 60Hz
Power consumption	5 VA max @ 230V AC
Environment specifications	
Temperature	Operating : 0°C to 50°C; Storage : -20°C to 75°C
Humidity (non - condensing)	95% RH
Mechanical specifications	
Mounting	Panel
Weight	200 gms
Sensor Information	
Cable length	1 meter
Dimensions (mm)	52 x 28.8 x 18
Input range	5V DC
Weight	33 gms

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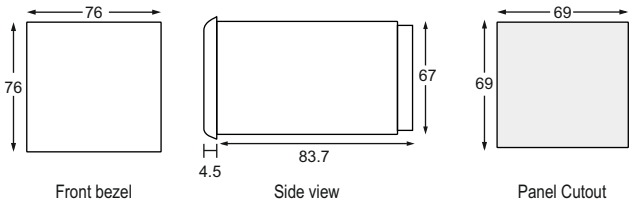
HTC206

Terminal connections



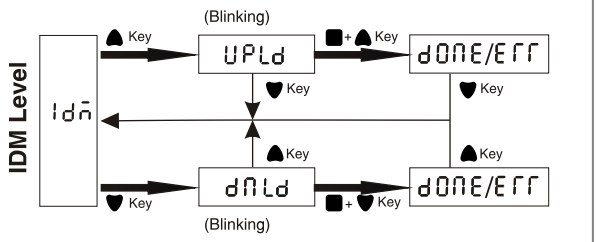
RD - Red Wire - +5V supply
BL - Black Wire - GND
GR - Green Wire - Signal

Dimensions (All are in mm)



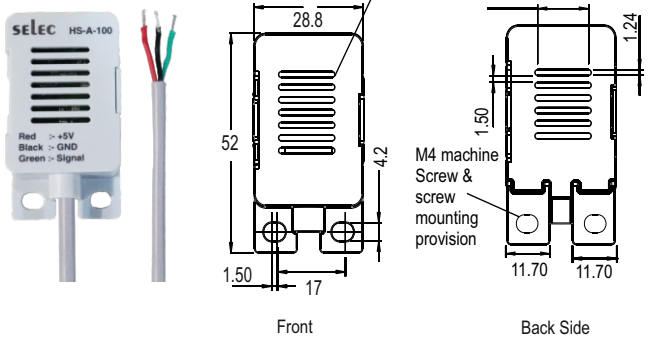
Independent Downloader module (IDM)





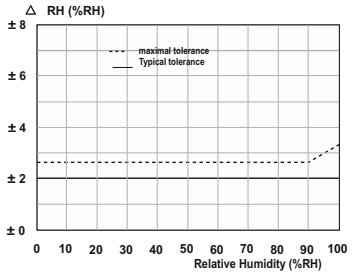
IDM Level	
Display	Parameter Description
Idn	Independent Downloader Module
UPLd	Upload from product to IDM
dNLd	Download from IDM to product
dONE	Operation Successful
ErR	Operation unsuccessful

Sensor dimension (Top & Side)

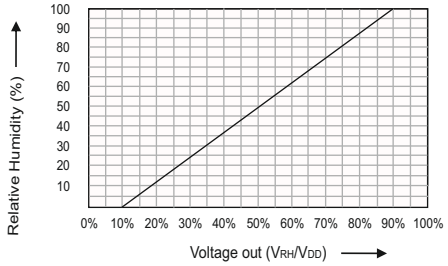


NOTE : Length of the cable can be increased by using compensation cable up to 3 meter. After that accuracy may vary by 1% / Meter.

Humidity Sensor Performance



Tolerance of RH at 25°C



Relation between the ratiometric analog voltage output and measured relative humidity.

Ordering information

Product Code	Input	Control Output		Supply Voltage	Certification
		Output 1	Output 2		
HTC206	RH+RTD	RELAY (10A)	RELAY (10A)	90 to 270V AC / DC	---