HUMIDITY CONTROLLER

HC205



72 x 72mm

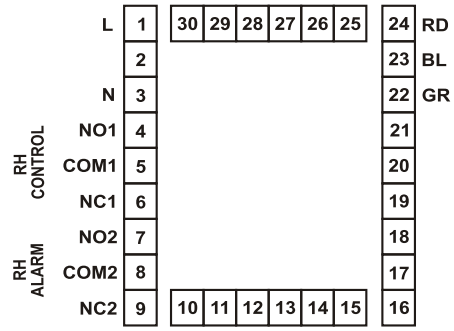
Features :

- 4 Digits LED dual display
- RH sensor input
- Sensor enclosed with unit
- ON / OFF control
- 10A SPDT Relay output
- 10A SPDT alarm output
- 0 - 100% humidity control range
- 90 to 270V AC / DC supply voltage
- IDM applicable

Technical specifications

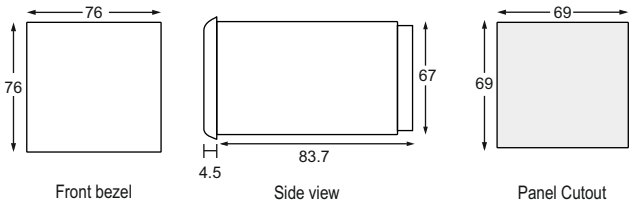
Display specifications	
Display	4+4 Digits
Height of digit	White digit : 16.7mm, Green digit : 9mm, 7 segment LED display
LED indication	OUT 1 : RH control ON ; AL 1 : Alarm
Input specifications	
Input signal	RH (HS-A-100)
Sampling time	250ms
Input filter (FTC)	0.2 to 10.0 sec
Resolution	0.1 / 1
Humidity unit	%RH
Output specifications	
RH control output	**Relay contact (SPDT) :** 10A @ 250V AC / 30V DC, resistive
RH alarm output	**Relay contact (SPDT) :** 10A @ 250V AC / 30V DC, resistive
Functional specifications	
Control action	ON - OFF control
Display offset adjustment	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

Terminal connections



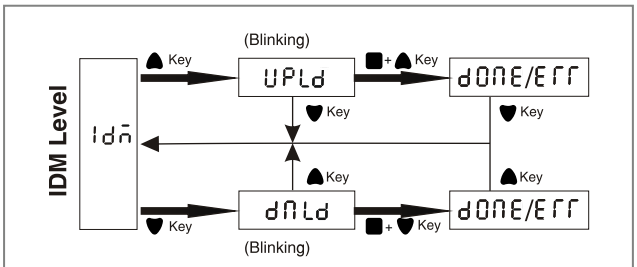
RD - Red Wire - +5V supply
BL - Black Wire - GND
GR - Green Wire - Signal

Dimensions (All are in mm)



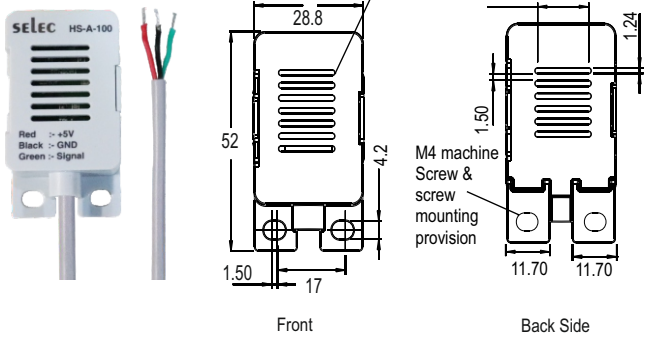
Independent Downloader module (IDM)





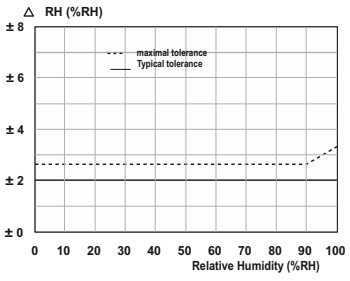
IDM Level	
Display	Parameter Description
Idn	Independent Downloader Module
UPLd	Upload from product to IDM
dnLd	Download from IDM to product
dONE	Operation Successful
Err	Operation unsuccessful

Sensor dimension (Top & Side)

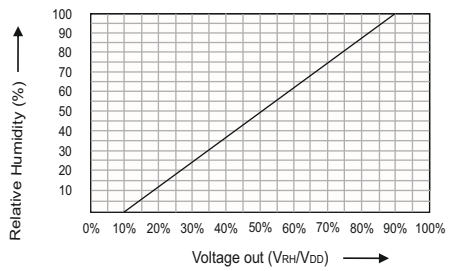


NOTE : Length of the cable can be increased by using compensation cable up to 3 meter. After that accuracy may vary by 1% / Meter.

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	Alarm	Supply Voltage	Certification
		Output 1			
HC205	RH	RELAY (10A)	RELAY (10A)	90 to 270V AC / DC	- - -