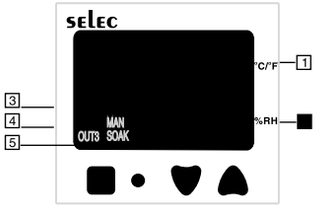
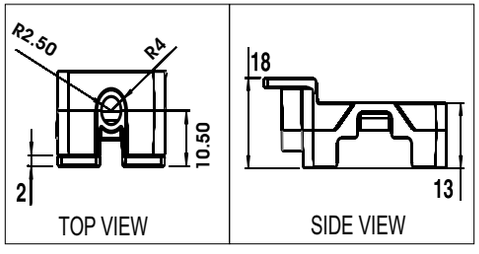
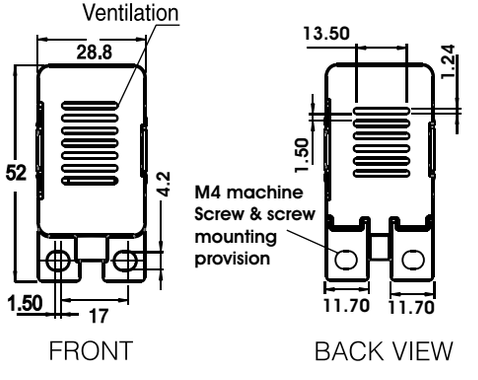
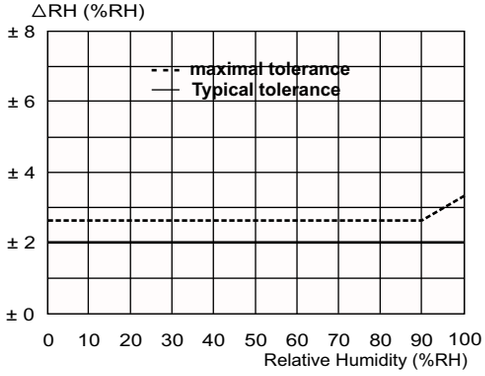


1 Process-value/ Parameter display/ Set point display	1) Display process value of RTD. 2) Displays the parameter symbols at configuration mode/online menu. 3) Displays error conditions of RTD. (Refer Table 2 on page 2)
■ Parameter setting display	1) Display process value of RH. 2) Displays the parameter settings at configuration mode/online menu. 3) Displays error conditions of RH.
3 Control output1 indication	The OUT1 is lit when the RH control output 1 is ON
4 Control output 2 indication	The OUT2 is lit when the RTD control output 2 is ON
5 Tune	Auto tune (AT) : Blinking

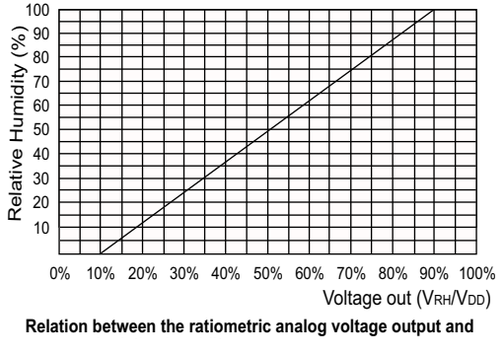




NOTE :1) All Dimenstions in mm.
2) Length of the cable can be increased by using compensation cable upto 3 meter. After that accuracy may vary by 1% / Meter.



Tolerance of RH at 25°C



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

1. The sensor shows best performance when operated within recommended normal humidity range of 20 to 80%RH, respectively.
2. Long term exposure to conditions outside normal range, especially at high humidity, may temporarily offset the RH signal.
3. After returning to normal humidity range the sensor will slowly come back to calibration state by itself.
4. Prolonged exposure to extreme condition may accelerate ageing.

FUNCTIONS	KEY PRESS
To view Level 0	Press ▼ key for 3 sec.
To view Level 1	After Level 0 press ■ + ▲ key
To view Level 2	Press ▲ key for 3 sec.
To view Protection Level	Press ▲ + ▼ keys for 3 sec.
To view online parameters	Lower display selectable between SETH/SETT using ▲ key.
To change online parameter values	Press up key then Press ■ + ▲ / ▼ to change parameter value.

To view parameters on the same level.	▲ or ▼ key once to view the next or previous function in operational menu.
To increase or decrease the value of a particular parameter.	■ + ▲ to increase and ■ + ▼ to decrease the function value. **Note :** Parameter value will not alter when respective level is locked.

NOTE : The unit will auto exit programming mode after 30 seconds of inactivity.

■ By pressing the ▲ or ▼ or ▲ + ▼ keys for 3 seconds.

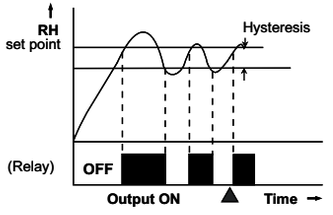
INPUT RANGES (Table1)

INPUT **RANGES**

ERROR DISPALY (Table2)

Error

1) ON/OFF control action (for Humidity / RTD) :
The relay is 'OFF' up to the set RH (Relative Humidity) and 'ON' above the set RH (Relative Humidity). As the RH (Relative Humidity) of the system drops, the relay is switched 'OFF' at a RH (Relative Humidity) slightly lower than the set point.
Hysteresis : The difference between the RH (Relative Humidity) at which relay switches 'ON' and at which relay switches 'OFF' is the hysteresis or dead band.

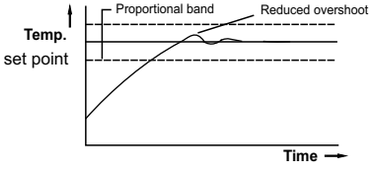


2. Display Offset adjustment (HdbS / tdbS):
This function is used to adjust the display value in cases where it is necessary for display value to agree with another recorder or indicator, or when the sensor cannot be mounted in correct location.

3. Restart time delay (rtdl):
This parameter is used to protect the compressor from restarting in a short period of time and can be set between 0 to 99 minutes.
Example : If this parameter is set at 2 mins, the relay will cut off at the set RH, but will not restart for a minimum of 2 mins, even if the differential is achieved earlier.

4. Resolution(HrES / trES) :
When set as 0.1 for RH
PV auto ranges to 0.0 % < PV < 100.0%
When set as 0.1 for RTD
PV auto ranges to -150% < PV < 850.0% for °C
PV auto ranges to -199% < PV < 999.9% for °F

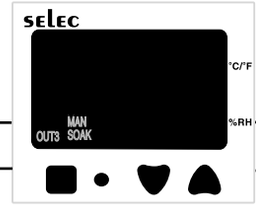
5. Self Tune (ST) : It is used where modification of PID parameters is required repeatedly due to frequent change in process condition eg. Setpoint.
- Tune LED blinks at slower rate when Self-tuning is in progress.
- At the completion of self-tuning, Tune LED stop blinking.



Self-tuning is initiated under the following conditions :
1) When setpoint is altered.
2) When tune mode is altered. (TUNE=ST)
- ST will start only if PV < 50% of setpoint.
- ST will work only when TACT=RE.

0

POWER ON



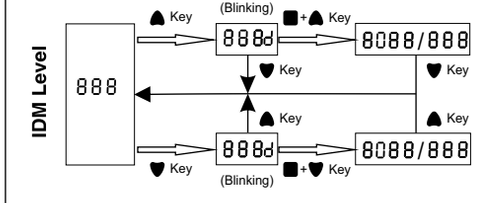
HHYS	Humidity Hysteresis	0.5	0.1 to 99.9%RH
Hdbs	Humidity Display bias	0.0	-19.9 to 19.9%RH

CNTL	Control logic	PID	PID / ONF
OUT	Control Output Selection	RLY	RELAY / SSR / BOTH
THYS	Temperature Hysteresis	0.5	0.1 to 99.9°
tdbs	Temperature display bias	0.0	-19.9 to 19.9°

10.0

10.0

IDM Level



888	IndependentDownloader Module
888d	Upload from product to IDM

Note:
1) IDM Level - IDM should be connected before powering on the unit to enter in IDM Level.
2) Long Press ▲ or ♥ key for 3 sec to exit from IDM mode.

Caution: After Downloading, switch of the unit and then remove the IDM

Model No : HTC206

Claimed Accuracy :
for RH input:
± 3% for RH 10% to 80%
± 4% for Below 10% & Above 80%
for RTD input:
(20 min of warm up time)
For RTD inputs : 0.1% of FS ±1□C

Standard used for Calibration of product is traceable to NABL

The calibration of this unit has been verified at the following values :

SENSOR SELECTION	VERIFICATION VALUE (°C)
RTD	0.0
	323.5
	800.0

Note :- The verification values are approximate values with ± 5°C range.

The RTD curves are linearized in this microprocessor based product; and hence the values interpolated across the input range are also equally accurate ; at every point in the curve.

Unit is accepted as accuracy is within the specified limit of claimed accuracy and certificate is valid upto one year from the date of issue.

(Specifications are subject to change, since development is a continuous process.)

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