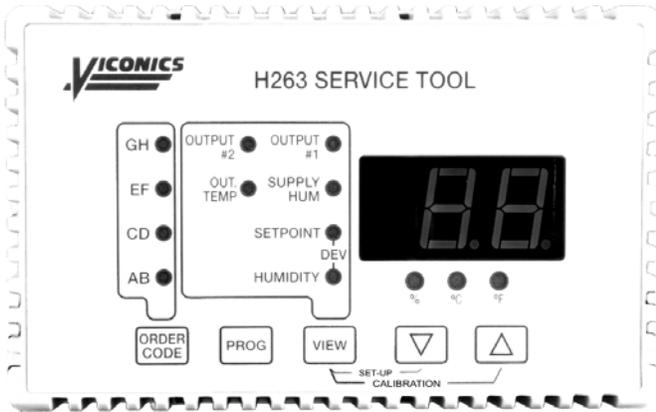# H263
Programming tool
for Humidistats

Use C263H insert and place it over the C263 programmer for use of programmer with Humidistats.

CORRESPONDING DISPLAYED VALUES WHEN CALIBRATING HUMIDISTATS

LED INDICATORS

DEV:
Deviation (Humidity - Setpoint)   (DEV)

HUM.:
Humidity reading in the room or in the duct   (TEMP)

SETPOINT:
Humidity setpoint (Adjusted or programmed)   SETPOINT)

HUM. LIMIT :
Supply high limit humidity reading   (POWER LIMIT)

HUM. LIMIT wih Decimal point :
Fraction of supply humidity reading.

OUTPUTS #1,#2:
Output values (0 à 100%)   (OUT #1, OUT #2)

OUT. TEMP.:
Outside temperature   (OUT #3)

All other indicators are not used.

PROGRAMMING

Push "ORDER CODE" key to access order code AB, use "∧" and "∨" keys to adjust the value. Refer to product literature to determine desired code. Push "ORDER CODE" key again to access CD, EF and GH. To download the new the order code into the humidistat, push and hold "PROG." key for 3 seconds, H263 will turn OFF then ON.

To access "SETUP" push "VIEW" and "∨" simultaneously. First parameter displayed is "Db", use "∧" and "∨" keys to adjust the value. Refer to TABLE 1 on the next page for setting options. Push "VIEW" again to go to next parameter. . To download the new the parameters into the humidistat, push and hold "PROG." key for 3 seconds, H263 will turn OFF then ON.

For "CALIBRATION" use the AUTOCAL PROCEDURE explained on next page.

H270 HUMIDITY SETPOINT RESET BY OUTSIDE TEMPERATURE

HUMIDITY SETPOINT RESET BY OUTSIDE TEMPERATURE

Note: **rE, HT, LT** parameters can be changed with C263 programming tool
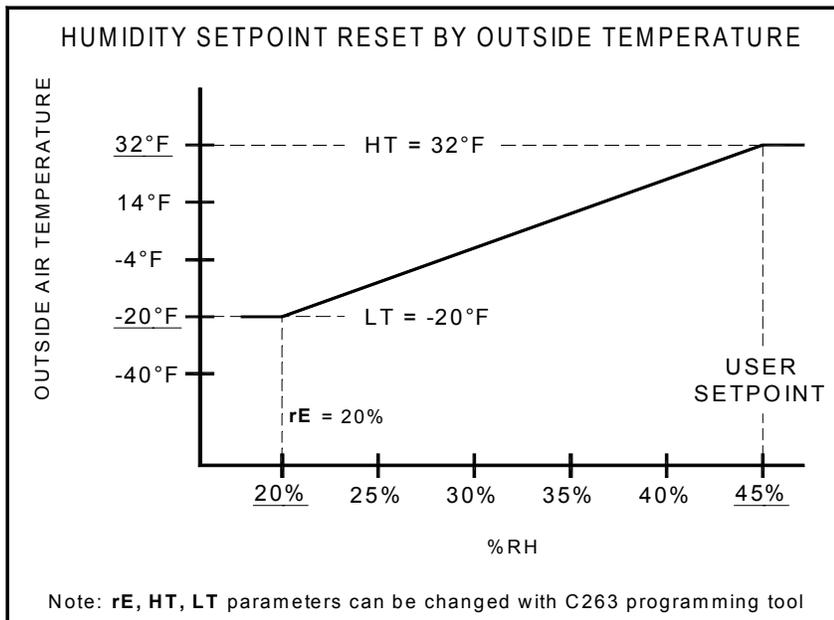
The H270 humidistat has an optional outdoor temperature sensor. This sensor is used to reset the humidity setpoint during the cold season to minimize condensation on windows and building structures.

When the outdoor temperature falls below the selected high temperature, parameter **HT** (32°F in the example beside), the humidity setpoint will start to decrease. The lowest humidity setpoint will be reached at selected low temperature, parameter **LT** (-20°F).

The setpoint decrease from original setpoint down to the lowest setpoint determined by the parameter **rE**. In the example beside, **rE** was set to 20%, therefore the humidity setpoint dropped from 45% to 20%.

If you don't use the outdoor reset feature, put a jumper between terminals 6 and 9 (supplied with the humidistat.)

TABLE 1: H263 HUMIDISTAT PROGRAMMING TOOL

CODE	VALUES	DEFAULT VALUE	DESCRIPTION
Db	0 to 40 % R.H.	25% R.H.	Dead Band between humidification and dehumidification.
SL	30 to 100 % R.H.	85% R.H.	Supply Limitation: High humidity limit in the supply duct (H270 only)
d2	0 to 199 % (of proportional band)	100%	Differential for output #2": Shift for output 2 relative to output 1
Pb	0 = 1.6 % R.H. 1 = 3.2 % R.H. 2 = 6.4 % R.H. 3 = 12.8 % R.H. 4 = 25.6 % R.H.	2= 6.4% R.H.	Proportional Band
o1	0 = Humidification 1 = Dehumidification		"Output #1" Action for output no 1
o2	0 = Humidification 1 = Dehumidification		"Output #2" Action for output no 2
cc	2 = Without integral 3 = With integral	3	"Control Code"
t1	0 = On/off 1 = 8 minutes 2 = 1 second		"Time #1" Time period for output no 1
t2	0 = On/off 1 = 8 minutes 2 = 1 second		"Time #2" Time period for output no. 2
rA	0 = °C 1 = °F	1 DO NOT CHANGE	"Range" Temperature Scale
Ca	± 13 %		Calibration (deviation mode: <u>DO NOT MODIFY: USE AUTOCAL PROCEDURE; FOR H100 TRANSMITTER, USE THE ZERO POTENTIOMETER ON THE TRANSMITTER.</u>
hA	0 à 127		"Hardware assembly" Code related to thermostat model and entered at initial setup at the factory.
it	1 to 99 = 1 TO 99 MINUTES	60	"Integral time" Error integration time.
Lt	-40 à +40 °C (-40 à 105 °F)	-20 °F	"Lower temperature" minimum outside temperature for setpoint reset (model H270 only)
Ht	-40 à +40 °C (-40 à 105 °F)	32 °F	"Higher temperature" maximum outside temperature for setpoint reset (model H270 only)
rE	1 à 99 % R.H.	20 % R.H.	"Reset" Minimum humidity value (% HR) (model H270 only) Example: rE = 20%. Humidity setpoint will be reset from selected setpoint to 20%, from Ht to Lt

AIR SUPPLY HIGH LIMIT HUMIDITY SENSOR

The H270 includes a high limit circuit. This allows the use of a second humidity sensor to limit the humidity in the supply air. Input signal goes to terminals #8 on the humidistat. High limit setpoint is preprogrammed at 85% (parameter SL). It can be readjusted using the H263 service tool.

If you don't use the high limit feature, connect a 4.7 Meg Ω, ¼ watt resistor between terminals 8 and 10 (supplied with the humidistat.)

Remember: this high limit function is not a safety device. For critical situations, provide installation with normal protections required to ensure a safe operation.
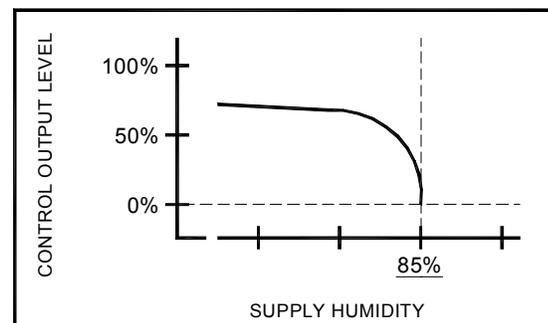
Proportional high limit override signal.

AUTOCAL PROCEDURE

The programmer is not needed to calibrate the humidistat. Follow instructions below:

1. Measure the room humidity near the Viconics humidistat with an accurate hygrometer.

2. Turn the humidistat set point dial to match the reading of the hygrometer.

Push and hold the Autocal button for more than 3 seconds or until the internal red light turns On and Off.

Be careful when recalibrating the H270. Since the outdoor temperature resets the setpoint, the displayed value on the programmer may be different from the adjusted setpoint. To avoid confusion, put a jumper across the sensor (pins 6 and 9) before doing calibration. Calibrate the humidistat; then remove the jumper.

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