Q&A English Webinar – RHT Climate

QUESTIONS & ANSWERS

Below we present the list of Questions and Answers from the RHT Climate webinar on Apr 4th and Apr 5th.

Issue	Question	Answer
Accuracy	What is the accuracy of RHT Climate?	Relative Humidity: ±1,8 % RH @ +23 °C (0 % RH a 90 % RH) Temperature: ±0,2 °C (0 °C a +60 °C)
Buzzer	What is the built-in buzzer's level?	The specification of the buzzer level is 87 to 92 dBA, as the buzzer is inside the enclosure the level is a little lower than that.
Alarm	Can the alarm be silenced or turned off easily?	Yes, you can use the second function of key ⏏ to mute the buzzer and to turn off the alarm output. The alarm will also be deactivated when the alarm condition is undone. In this case, although it is disabled, the display shows the alarm occurrence.
Protection Rating	Why the enclosure's IP rating is different than probe's IP rating? Is there additional filters for the sensor module?	Because the RHT probe must have contact with the medium, it has lower IP rating, reaching IP30 (with the default filter) and IP40 with the additional PTFE filter (included in some models). The sensor proble cannot be wetted, otherwise it will provide wrong information.
Probe	Remote probes will be available? Some applications that requires colder climates.	Yes, the remote probes will be available in the RHT Climate XS and P10, the model already mapped into the roadmap.
Legacy	Does this product replace the previous RHT family?	RHT Climate is more precise, more versatile and it has more psychrometric information. So, it can replace the previous RHT family with several advantages. However, applications with less stringent requirements can continue to use the previous family.
Communication	What communications protocols are supported?	The communication protocol is slave Modbus-RTU. Either through RS485 or USB. The model with BACnet MS/TP is already mapped into the roadmap.
Consumption	What is the overall power consumption of the unit?	The consumption of the device is lower than 70mA ±10 % @ 24 Vdc.
Psychrometry	Is there any way to retransmit other variables, such as absolute humidity through the analog outputs?	Yes, you can retransmit relative humidity and temperature or any of the seven psychrometric properties, as absolute humidity, available in the device.
Measurement Ranges	What is the maximum ranges available?	Humidity: 0% RH and 100% RH (no condensing); Temperature: • -40 °C to 100 °C for DM models • -40 °C to 60 °C for WM models

Analog Outputs	Does the device have analog outputs of 4-20mA and 0-10V or are they excludable?	The two analog outputs are independent and can be set to 4-20 mA or 0-10 V. Both can operate independently, being configured for current only or voltage only, or one output with each type.
Communication	Is the USB port inside or outside the enclosure?	The USB port is on the outside of the enclosure and to maintain the protection rating, it is protected by a built-in removable rubber cap.
Application	Can this device model be used in Horticulture, hothouse, or even in dusty environments?	RHT Climate has an IP65 protection rating, which allows it to operate in a variety of tough environments, including horticulture, hothouse and dusty enviroments. In those cases we recommend the use of the PTFE probe.
Configuration	Is the configuration software free?	Yes, It's free and you can download in our website.
Legacy	How better is the new model compairing to the previous?	The RHT Climate has better accuracy. The temperature accuracy is around ten times better and the humidity accuracy is around two times better than the previous model. The RHT Climate has better versatility. The analog outputs can be software configured either 4-20 mA or 0-10V and both are present even in the RS485 Modbus versions. The RHT Climate has more psychrometric information. There are seven psychrometric data, unlike the previous model that has only dew point.
Configuration	Do I need wiring to configurate the device?	You don't need wiring for power suplly to the device. You can just connect it with the USB cable to you PC and configure the device. The USB cable will provide power to device.