

**Q&A English Webinar - LogBox BLE**

**QUESTIONS & ANSWERS**

Below we present the list of Questions and Answers from the LogBox BLE webinar on Nov 6<sup>th</sup> .

Issue	Question	Answer
Display	Is it possible to disable the display?	Yes, it is possible. This option is on the software configurator and app.
Display	Is it possible to switch the display channels?	Yes, the user can select which channel should be displayed.
Display	Regarding the cover of the screen, is it a membrane or hard plastic?	It is a polycarbonate overlay.
Modbus	Is it compatible with Modbus RS485?	No, the LogBox-BLE has no Modbus networking capability at this moment.
Cloud protocol	How about connectivity using MAQP?	A issues regarding the NOVUS Cloud protocol are related to the softwares LogChart BLE and NXperience, not with LogBox BLE, which is not connected directly to internet. Any suggestions of protocols are welcome and we will take note of it. Thank you
Cloud protocol	What is the universal IOT cloud protocol?	MQTT is the most common IoT protocol, but it is more related to softwares LogChart BLE and NXperience, not to LogBox BLE.
Cloud protocol	If I want to connect multiple LogBox-BLE to the NOVUS Cloud, will I need multiple separate accounts?	Not exactly. There are many different plan options for the NOVUS Cloud and multiple devices can be assigned to a single account. Please check with your Key Account Executive about the plans and values.
Novus Cloud	Is the NOVUS Cloud for free?	No, please consult your Key Account Manager for plans and values.
iPhone	Is there in your roadmap an iPhone app to be supported for LogBox BLE?	The iPhone app is under development and we will keep our distributor network updated about the status.
Memory capability	Are the 140000 memory records for each channel or for the 3 channels?	Total memory capability shared between all channels being recorded.
CFR21	Is there a CFR21 approved version of the software?	We are planning to certify our software. We will keep our distributor network updated about the status.
Analog Inputs	How many input channels does the LogBox-BLE have?	3 analog inputs and 1 digital input.
Analog Inputs	What is the type of connection for Pt100 (2, 3, 4 wires)?	3-wire Pt100 connection
Analog Inputs	Will it be able to take mV input from a PH sensor?	Yes, the LogBox-BLE accepts many different voltage ranges in its inputs including 0-50mV, 0-5V and 0-10V
Analog Inputs	Is there different sampling rate on each channel? Does it allocate different memory?	No, the sampling rate is equal for all channels and can be selected in a range from 1 sec to 18 hours
Analog Inputs	What is typical overall accuracy with a Pt100 sensor?	The accuracy for PT100 sensors is 0.15% of full scale (-200 to 650°C)
Analog Inputs	Can a temperature sensor can be connected directly or we have to use temperature transmitter?	You can use both options. The analog inputs accepts direct wiring with temperature sensors like Pt100 and Thermocouple or 0-20mA/4-20mA signal from transmitter
Analog Inputs	Is there any possibility to add sensors like Humidity and Temp and Dewpoint in the future?	Yes, we have this model in the roadmap and we will keep our distributor network updated about the status.
Analog Inputs	How many channels can you record?	In fact you can make any combination totalizing 4 channels, using either the analog/digital inputs or internal sensors.
Built-in sensors	How many sensors are built-in in the LogBox?	There are 3 built-in sensors. One temperature NTC sensor and 2 voltage sensors, one for the battery and another for the external power supply.
Cloud protocol	Does it have an option for extension of channels?	Not at this moment.
Battery	Does the LogBox send battery condition data?	Yes, the internal voltage sensors can measure the battery

		level. This value can be logged and displayed. There is an icon being displayed constantly with the battery status. Also, this internal sensor can be configured to trigger an alarm.
Power Supply	What is the maximum voltage input?	Any external power supply can be used with voltages from 10 to 30Vdc.
Voltage output	Is there a power supply output for sensors like Humidity Probes, etc.?	There is no source voltage output. There is a PNP digital output that can be used as a switch to power external sensors/transmitters. The LogBox-BLE has to be used with an external power supply, so it can supply the external sensors/transmitters through this electronic switch.
Distance range	What is the approximate maximum distance for Bluetooth communication in a standard office?	The Bluetooth Low Energy range is about 10m
Alarm	Is there any alarm function on the LogBox BLE?	There are 2 alarms (LOW and HIGH) for each channel of the LogBox-BLE. There is also a buzzer that can sound on alarm condition. Also, there is icon indication in display on alarm condition.
Alarm	Regarding the internal buzzer alarm, what is the impact on the battery life?	The buzzer alarm does impact on the battery life. There is a timer that will define the duration of the buzzer alarm. The buzzer will also stop if the user acknowledges the alarm by pressing a button.
Alarm	Can alarm send email with LogChart BLE?	The LogBox-BLE is not able to send email alarms once it is not connected on the internet.
Case Protection	What is the IP rating of the LogBox BLE?	The LogBox-BLE's protection index is IP40
Bluetooth	Is it possible to connect the LogBox BLE with a computer via Bluetooth?	The LogBox-BLE connects to the computer through USB using the NXperience or to the mobile phone through Bluetooth using the LogChart BLE app.
Software	How many channels can be shown in the software (If I have more than one LogBox BLE unit)?	If you download data from multiple LogBox-BLE devices, the software can merge the graphics to display all measurements in the same graphic. The limit is 8 variables.
Software	Regarding 4-20mA signal inputs, will it show engineering values on the display or raw values?	All linear inputs can be displayed in a configurable range from -19999 to 19999. Also the position of decimal point can be configured.
Temperature range	What is the maximum temperature range that the LogBox-BLE can handle?	Using the included batteries: -10 to 50 °C Using Energizer L91 batteries: -20 to 60 °C Using external power supply: -20 to 70 °C
Calibration	Is it possible to perform a device calibration?	Yes, it is possible. There is a custom calibration option that allows the user to enter 10 custom calibration points.