

**Q&A English Webinar – LogBox Wi-Fi**

**QUESTIONS & ANSWERS**

Below we present the list of Questions and Answers from the LogBox Wi-Fi webinar on Sep 12<sup>th</sup>.

Issue	Question	Answer
Battery	What is the type of battery and what is the autonomy?	They are standard AA batteries and the battery life is up to 2 years, remembering that it is backup battery and Wi-Fi is off in this condition.
Software	Can Nxperience configure and download data from LogBox Wi-Fi through Wi-Fi? Is there any device number limit to using in NXperience? Can they be set up for automatic download at specified times?	Yes, you can configure, download and monitor your device data in real time (by Modbus TCP). There is no device limit for use in NXperience and each device is read by the IP address or tag one by one. In order to have access to the data from time to time it is recommended to use SCADA supervision or the use of the cloud.
Modbus TCP	What is the difference between using ModBus TCP protocol from FieldLogger and LogBox Wi-Fi?	The protocol is essentially the same, the big difference is in the physical layer that in the FieldLogger is the Ethernet and in the LogBox Wi-Fi is Wi-Fi. But all SCADA systems that have this protocol are able to use either or the other.
Communication	How does MQTT work? Does it works at the same time of Modbus TCP/IP and MQTT?	MQTT stands for MQ Telemetry Transport it is a publish/subscribe protocol, this means that the data is sent by the push method to a broker and all subscribers of the topics receive the information. As it is a popular protocol in IoT, it can be used in several different clouds and SCADA supervisors. Yes, the Wi-Fi LogBox can operate through both protocols at the same time.
CFR 21 part 11	Can logbox be part of CFR 21 part 11 compliant system for pharma applications?	LogBox Wi-Fi can be part of a validated system because has support for CFR 21 Part 11 and RDC 17:2010 Validation. The memory containing the basic configuration and calibration is protected by a mechanism that detects any improper changes. The mechanism is composed of an electronic signature (hash). Any change in the parameters will be identified by a change in the electronic signature, accessible for reading by the monitoring system.
Wi-Fi	What is the typical range of the Wi-Fi signal?	The Wi-Fi range is typical of any network with the same technology, averaging 30m indoor and 150m outdoor, but this definition is given by the type of router used, antenna gain, transmitter power, obstacles or sources of environmental interference not depending on the LogBox Wi-Fi device.
Wi-Fi	What frequency of Wi-Fi operation and data speed?	LogBox Wi-Fi has an 802.11 interface in 2.4 Ghz b/g/n standards which means speeds of 11MB/s to 100MB/s.
Analog Input	Is there compatibility between NOVUS humidity and temperature transmitters with LogBox Wi-Fi? How many transmitters can be connected and logged in the LogBox Wi-Fi?	Yes, it is fully compatible with our temperature and humidity transmitters. Up to three 4-20 mA transmitters and can be fed by the digital output pin with the auxiliary electronic switch mode.
Digital Input	How to reset the pulse counter?	In each record interval, LogBox Wi-Fi captures the number of pulses that occurred and records it in memory, resetting the recorder to accumulate the pulses of the next interval.
Operation Conditions	What are the ambient temperature and humidity conditions for LogBox Wi-Fi operation?	The operating temperature of the device is: -10 to 50 ° C (using batteries included) and -20 to 70 ° C (using external power supply). The operating relative humidity of the device is <= 90% RH without condensation.