LogBox CONNECT

LogBox Connect provides the connectivity and data acquisitions solution for any type of application, due its different wireless models is the entrance for the connected world.

Wireless communication, large autonomy and flexibility for sensor types are the highlights of LogBox Connect. Large display, mobility and easy installation completes the value added.

Configuration and data downloading can be performed by mobile device or computer.

Bluetooth Multi Channel Data Logger

LogBox BLE

- ✓ Monitoring for applications demanding battery-powered operation
- ✓ Configuration and data downloading via USB or Bluetooth
- ✓ Full operation with 4 AA alkaline batteries (or 10~30 Vdc power supply)
- ✓ Bluetooth data Communication using mobile application NXperience Mobile
- ✓ Autonomy up to 2 years with batteries
- ✓ Buzzer Alarms

Applications:

| Laboratories | Cold Chain | Data Centers |

Wi-Fi Multi Channel Data Logger

LogBox Wi-Fi

- ✓ Monitoring of distributed and large facilities with existing Wi-Fi infrastructure
- ✓ Configuration and data downloading via USB or Wi-Fi
- ✓ Alarm notification by email
- ✓ Wi-Fi data communication using NXperience, cloud systems, SCADA or NOVUS Cloud
- ✓ Modbus TCP and MQTT protocols

Applications:

| Distribution Centers | Cold Chain | Commercial Refrigeration |

LTE Multi Channel Data Logger

LogBox LTE

- ✓ Suitable for mobile applications in long distance locations
- ✓ Configuration and data download via USB or NOVUS Cloud
- ✓ SMS alarm notification
- ✓ Built-in rechargeable backup battery
- ✓ Easy integration with NOVUS Cloud
- ✓ Data communication via LTE network through NXperience and SCADA

Applications:

| Utility Services | Sensible Products in Transportation | Agricultural Greenhouses |

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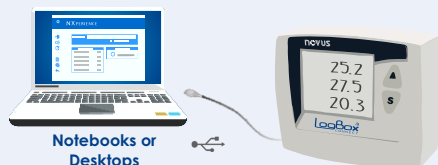
Configuration and data downloading

COMPUTER

NXperience software is the main tool for configuration and data download of LogBox Connect. All parameters and features can be adjusted, making NXperience the complete tool for data analysis, graphical view, mathematical formulas creation and report issuance.

NXperience can download data from several LogBoxes in customer facilities.

Notebooks or Desktops

SCADA

LogBox Wi-Fi and LogBox LTE models can be used as monitoring elements of a SCADA system. The LogBox Wi-Fi features Modbus TCP protocol, available in most SCADA systems on the market, and MQTT protocol, recognized as the standard for IoT systems. The LogBox LTE also has the MQTT protocol, which allows integration with cloud systems, such as NOVUS Cloud for example, or even generic brokers dedicated to remote application monitoring.

MOBILE DEVICE

NXperience Mobile is a mobile application that can be used in mobile devices, it is the ideal tool for daily operations such as monitoring, data downloading or configuration of LogBox BLE and LogBox Wi-Fi, taking advantage of wireless communication mobility.

With NXperience Mobile, it is possible to configure, diagnose and collect multiple registrars.
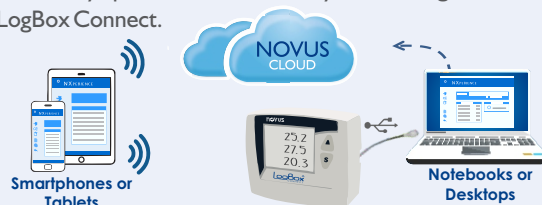
Smartphones

CLOUD PORTALS

All data from LogBox Connect, LogBox Wi-Fi, and LogBox LTE recorders can be transmitted directly to cloud portals such as NOVUS Cloud. This platform, compatible with IoT applications, allows you to store and display measurements of temperature, humidity, pressure, flow, or any other magnitude monitored and recorded by LogBox Connect.

Smartphones or Tablets

Notebooks or Desktops

Technical Features

	LogBox BLE	LogBox Wi-Fi	LogBox LTE
Input Signal	1 digital input 3 analog inputs	1 digital input 3 analog inputs	2 analog, 2 interns 1 digital
Type of Analog Signal	Thermocouples J, K, T, N, E, R, S, B, Pt100, 0-50 mV, 0-5 V, 0-10 V, 0-20 mA, 4-20 mA	Thermocouples J, K, T, N, E, R, S, B, Pt100, 0-50 mV, 0-5 V, 0-10 V, 0-20 mA, 4-20 mA	Thermocouples J, K, T, N, E, R, S and B, Pt100, 0-50 mV, 0-5 V, 0-10 V, 0-20 mA, 4-20 mA
Function of Digital Input	Counts Pulses, Records Events or Starts Logger	Counts Pulses, Records Events or Starts Logger	Counts Pulses, Records Events or Starts Logger
Digital Output	1 PNP output (Eletronic Switch or Alarm)	1 PNP output (Eletronic Switch or Alarm)	1 PNP type output, Maximum current that can switch on the output: 700 mA
Internal Sensors	NTC for temperature, battery voltage and external power supply	NTC for temperature, battery voltage and external power supply	Battery Voltage and External Power Supply
Display	3 lines with 4½ digits	3 lines with 4½ digits	3 lines with 4½ digits
Resolution	15 bits	15 bits	15 bits
Memory Capability	140.000 records	140.000 records	140.000 records (total)
Record Interval	1 s to 18 h	1 s to 18 h	1 second to 12 hours (recommended: 300 seconds)
Variable Record	Instantaneous or average	Instantaneous or average	Instantaneous or average
Acquisition Trigger	Date/Hour, Start button, digital input or by software	Date/Hour, Start button, digital input or by software	Date/time, alarm, start button, digital input, software command or SMS
Alarms	8 Alarms (two per channel) Low and High	8 Alarms (two per channel) Low and High	10 alarms available (can activate digital output, send SMS and MQTT publication)
Internal Buzzer	Yes	Yes	Yes
Communication Interface	USB Bluetooth 4.1 (BLE)	USB Wi-Fi 802.11 b/g/n	USB interface, Mobile communication module (2G, LTE Cat M1, LTE NB1/2, SMS)
Configuration Software	NXperience Mobile for Android and iOS NXperience for Windows	NXperience Mobile for Android and iOS NXperience for Windows	Nxperience (for desktops and notebooks – locally via USB or remotely via NOVUS Cloud)
Communication with SCADA or Cloud system		MQTT, Modbus TCP protocols and NOVUS Cloud	MQTT protocol (NOVUS Cloud or generic broker)
Power Supply	10-30 Vcc	10-30 Vcc	Voltage: 10Vdc to 30Vdc, Maximum Consumption: 300 mA, Typical Consumption: 20 mA, Built-in rechargeable battery
Backup Battery	4 AA alkaline piles Typical autonomy 2 years	4 AA alkaline piles Typical autonomy 2 years (without Wi-Fi)	Up to 80h
Operation Temperature	W/ power supply: -20 to 70 °C (-4 to 158 °F) W/ AA batteries: -10 to 50 °C (14 to 122 °F)	W/ power supply: -20 to 70 °C (-4 to 158 °F) W/ AA batteries: -10 to 50 °C (14 to 122 °F)	W/ power supply: -20 to 60 °C (-4 to 140 °F) Using backup power: 0 to 45 °C (0 to 113 °F)
Enclosure Protection	IP40	IP40	IP40
Dimensions	120 x 100 x 40 mm (4.72" x 3.94" x 1.57")	120 x 100 x 40 mm (4.72" x 3.94" x 1.57")	120 x 100 x 40 mm (4.72" x 3.94" x 1.57")

For pricing or any further information, please contact Omni Instruments Ltd.

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