

# LogBox CONNECT

New LogBox Connect family provides the wireless connectivity of new times and the compatibility with cloud data portals, like NOVUS Cloud.

Wireless communication, large autonomy and inputs for any type of sensors are the big highlights of LogBox Connect. It has large display and removable bracket and connectors.

Configuration and data downloading can be performed with the mobile application NXperience BLE or computer software NXperience, which can access all LogBox Connect models via USB.



## Bluetooth



LogBox BLE

- Monitoring of inner facilities which allows visual inspection of data loggers;
- Configuration and data downloading via Bluetooth with smartphone using NXperience BLE;
- External power supply 10-30 Vdc or 4 AA alkaline batteries;
- Autonomy higher than 2 years with batteries (5 min acquisition interval);

### Applications:



Environment Monitoring of Laboratories



Temperature Recording in Cold Rooms



Climate Control in Data Centers



## WiFi



LogBox WiFi

- Monitoring of larger facilities with existing WiFi infrastructure;
- Configuration and data downloading via USB or WiFi with NXperience PC software;
- External power supply 10-30 Vdc (backup operation with 4 AA alkaline batteries);
- WiFi Data transmission to NXperience, SCADA or other cloud systems;

### Applications:



Climate Monitoring in Distribution Centers



Monitoring of Freezers and Refrigerators in the Cold Chain



Commercial or Supermarket Refrigeration



## 3G



LogBox 3G

- Monitoring in mobile applications or distributed over long distances;
- Configuration and data download via USB with NXperience PC software;
- External power supply 10-30 Vdc;
- Internal rechargeable backup battery for up to 8 hours autonomy;
- Data transmission via 3G cellular network to NOVUS Cloud, SCADA or other cloud systems

### Applications:



Telemetry of Utility Services



Monitoring of Sensible Products in Transportation



Climate Control in Agricultural Greenhouses

# Configuration and Data downloading



NXperience software is the main tool for configuration and data download of the LogBox Connect. All parameters and features can be adjusted through LogBox USB interface, turning NXperience into a powerful tool for data analysis, graphical view, mathematical formulas creation and report issuance.

NXperience can download data from several LogBoxes and transfer those data to NOVUS Cloud. It is also possible to generate reports in .pdf and .xls formats.



NXperience BLE is a mobile application that can be used into Android devices, it's an ideal tool for daily operations such as monitoring, data downloading or configuration of LogBox BLE, taking advantage of the mobility of Bluetooth communication to it.

NXperience BLE can download data from several LogBoxes BLE and transfer those data to NOVUS Cloud or to PC.



## NOVUS Cloud

NOVUS Cloud is an internet portal where all data from LogBox Connect family can be transferred directly or through NXperience BLE and NXperience applications, creating a central repository and dashboard of information in the cloud.

This platform, which is compatible with emerging IoT technologies, allows to store and to display temperature, humidity, pressure, flow, geolocation or any other monitored and recorded measurement from the LogBox Connect.



## Technical Features

Characteristics	LogBox BLE	LogBox WiFi	LogBox 3G
Input Signal	1 Digital Input 3 Analog Inputs	1 Digital Input 3 Analog Inputs	1 Digital Input 2 Analog Inputs
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	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
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 (Electronic Switch or Alarm)	1 PNP Output (Electronic Switch or Alarm)	1 NPN Output (Alarm)
Internal Sensors	NTC for temperature, Battery Voltage and External Power Supply	Battery Voltage and External Power Supply	Battery Voltage and External Power Supply
Display	3 lines with 4 1/2 digits	3 lines with 4 1/2 digits	3 lines with 4 1/2 digits
Resolution	15 bits	15 bits	15 bits
Memory Capability	140,000 records	140,000 records	140,000 records
Record Interval	1 s to 18 h	1 s to 18 h	1 s to 12 h
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/Hour, Start button, Digital Input or by Software
Alarms	8 Alarms (two per channel) Low and High	8 Alarms (two per channel) Low and High	Up to 10 alarms Send by SMS
Internal Buzzer	Yes	Yes	Yes
Communication Interface	USB Bluetooth 4.1 (BLE)	USB WiFi 802.11 b/g/n	USB Cellular 3G
Configuration Software	NXperience (PC USB) NXperience BLE (smartphone)	NXperience (USB and WiFi)	NXperience (PC USB) NOVUS Cloud
Interface with SCADA or Cloud system	-	Yes, MQTT protocol and Modbus TCP	Yes, NOVUS Cloud
Power Supply	10-30Vdc and/or 4 AA alkaline batteries	10-30 Vcc 4 AA alkaline backup batteries (turn off WiFi)	10-30 Vcc Internal backup battery
Battery Autonomy	Typical 2 years	Typical 1 year (with batteries, without WiFi)	Up to 8h (with backup battery)
Operation Temperature	With batteries: -10 to 50 °C With power supply: -20 to 70 °C	With batteries: -10 to 50 °C With power supply: -20 to 70 °C	With battery: 0 to 45 °C With power supply: -20 to 70 °C
Enclosure Protection	IP40	IP40	IP40
Dimensions	120 x 100 x 40 mm	120 x 100 x 40 mm	120 x 100 x 40 mm

