

# 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.

The configuration and data download can be performed with mobile application LogChart BLE or notebook/desktop software NXperience, used to access all LogBox Connect models via USB.



## Bluetooth



LogBox BLE

- Monitoring of inner facilities that allow a visual inspection of data loggers;
- Configuration and data download via Bluetooth with smartphone using LogChart BLE app;
- External power supply 10-30Vdc 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 WiFi existing infrastructure;
- Configuration and data download via USB or WiFi with NXperience PC software;
- External power supply 10-30Vdc (backup operation with 4 AA alkaline batteries);
- WiFi Data transmission to NXperience, NOVUS Cloud, SCADA or other cloud systems;

### Applications:



Climate Monitoring in Distribution Centers



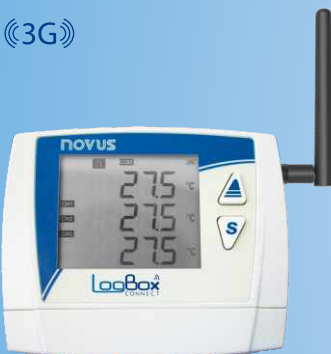
Monitoring of Freezers and Refrigerators in the Cold Chain



Commercial or Supermarket Refrigeration



## 3G



LogBox 3G

- Monitoring in mobile applications or distributes over long distances;
- Configuration and data download via USB with NXperience PC software;
- External power supply 10-30Vdc;
- 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

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



## LogChart BLE



LogChart BLE is a mobile application that can be used into Android devices, an ideal tool for daily operation as monitoring, data download or configuration of LogBox BLE, adding the mobility of Bluetooth communication to it.

LogChart BLE can download data from several LogBox BLE and transfer those data to NOVUS Cloud.



## NOVUS Cloud

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

This platform, compatible with the emerging IoT technology, allows to store and to present the measurements of temperature, humidity, pressure, flow, geolocation or any other monitored and recorded measurement from 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, 0-50mV, 0-5V, 0-10V, 0-20mA, 4-20mA	Pt100, 0-50mV, 0-5V, 0-10V, 0-20mA, 4-20mA	Thermocouples J,K,T,N,E,R,S,B, Pt100, 0-50mV, 0-5V, 0-10V, 0-20mA, 4-20mA
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 4½ digits	3 lines with 4½ digits	3 lines with 4½ digits
Resolution	15 bits	15 bits	15 bits
Memory Capability	140000 records	140000 records	140000 records
Record Interval	1 sec to 18h	1 sec to 18h	1 sec to 12h
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) LogChart-BLE (smartphone)	NXperience (USB and WiFi)	NXperience (PC USB) Novus Cloud
Interface with SCADA or Cloud system	-	Yes, MQTT protocol	Yes, Novus Cloud and MQTT protocol
Power Supply	10-30Vdc and/or 4 AA alkaline batteries	10-30Vcc 4 AA alkaline backup batteries (turn off WiFi)	10-30Vcc Internal backup battery
Battery Autonomy	Typical 2 years	Typical 1 year (with batteries, without WiFi)	Up to 8h (With back battery)
Operation Temperature	With batteries: -10 to 50°C With power supply: -20 a 70°C	With batteries: -10 a 50°C With power supply: -20 a 70°C	With battery: 0 a 45°C With power supply: -20 a 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

