

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



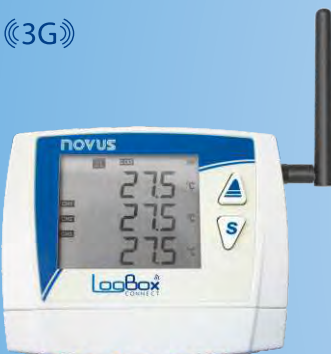
Monitoring of Freezers and Refrigerators in the Cold Chain



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 Input |
| 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 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 |



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



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