

LOGBOX DATA LOGGERS

SELECTION GUIDE



LogBox AA



LogBox DA



LogBox RHT



LogBox BLE



LogBox WiFi



Logbox LTE

	LOGBOX RUGGED			LOGBOX CONNECT		
Input Signal	2 Analog Inputs	1 Pulses Input 1 Analog Input	Embedded temperature and humidity sensor	1 Digital Input 3 Analog Inputs	1 Digital Input 3 Analog Inputs	2 analog 2 interns 1 digital
Signal Type	Thermoc. J,K,T,N,R,S,B, Pt100, 0-50 mV, 0-10 V, 0-20 mA, 4-20 mA	(0-50 mV, 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	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	Start/Stop Logger	Counts Pulses (NPN ou PNP)		Counts Pulses, Records Events or Starts Logger	Conts Pulses, Records Events ou or Starts Logger	Counts Pulses, Records Events or Starts Logger
Digital Output	1 Electronic Switch	1 Electronic Switch		1 PNP Output (Electronic Switch or Alarm)	1 PNP Output (Electronic 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	Battery Voltage and External Power Supply	Battery Voltage and External Power Supply
Display			2 lines with 4 digits	3 lines with 4½ digits	3 lines with 4½ digits	3 lines with 4½ digits
Resolution	14 bits	14 bits	Temperature 14 bits Humidity 12 bits	15 bits	15 bits	Analog Signals: 15 bits (32768 levels) Digital Signal: 16 bits (65536 levels)
Memory Capability	32000 records or 64000 records	32000 records or 64000 records	32000 records (16000 temperature and 16000 humidity)	140000 records	140000 records	140000 records (total)
Recording Interval	1 s to 18 h	1 s to 18 h	1 s to 18 h	1 s to 18 h	1 s to 18 h	1 second to 12 hours (recommended: 300 seconds)
Variable Recording	Instantaneous, average, minimum or maximum	Instantaneous, average, minimum or maximum	Instantaneous, average, minimum or maximum	Instantaneous or average	Instantaneous or average	Instantaneous or average
Acquisition Trigger	Date/Hour, Start button or Digital input	Date / Hour	Date / Hour, Start button or Setpoint	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	2 Alarms (one per channel) Low or High	2 Alarms (one per channel) Low or High	2 Alarms (one per channel) Low or High	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				✓	✓	✓
Communication Interface	Infrared	Infrared	Infrared	USB Bluetooth 4.1 (BLE)	USB WiFi 802.11 b/g/n	USB interface Mobile communication module (2G, LTE Cat M1, LTE NB1/2, SMS)
Configuration Software	LogChart II (PC)	LogChart II (PC)	LogChart II (PC)	NXperience (PC USB) LogChart-BLE (smartphone)	NXperience (PC USB)	NXperience (for desktops and notebooks – locally via USB or remotely via NOVUS Cloud)
Interface with SCADA or Cloud system					Yes, Modbus TCP or MQTT protocols (NOVUS Cloud or generic broker)	Yes, MQTT protocol (NOVUS Cloud or generic broker)
Power Supply	Lithium battery 3,6 V ½AA replaceable	Lithium battery 3,6 V ½AA replaceable	Lithium battery 3,6 V ½AA replaceable	10-30 Vdc and/or 4 AA alkaline batteries	10-30 Vcc 4 AA alkaline backup batteries (turn off WiFi)	Voltage: 10Vdc to 30Vdc Maximum Consumption: 300 mA Typical Consumption: 20 mA Built-in rechargeable battery
Battery Autonomy	Typical 1 year	Typical 1 year	Typical 1 year	Typical 2 years	Typical 1 year (with batteries, without WiFi)	Up to 80h
Operation Temperature	-40 to 70 °C	-40 to 70 °C	-40 to 70 °C	With batteries: -10 to 50 °C With power supply: -20 to 70°C	With batteries: -10 a 50 °C With power supply: -20 to 70°C	Using the power supply: -20 to 60 °C Using backup power: 0 to 45°C
Enclosure Protection	IP65 ou IP67	IP65 ou IP67	IP40	IP40	IP40	IP40
Dimensions	60 x 70 x 35 mm	60 x 70 x 35 mm	60 x 70 x 35 mm	120 x 100 x 40 mm	120 x 100 x 40 mm	120 x 100 x 40 mm