



blulog

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Blulog Ethernet / Wi-Fi / GSM Hub – Installation Manual

Dear Customer

Thank you for purchasing Blulog solution and congratulations on your choice. We guarantee the performance of the device in accordance with the technical and operating conditions described in the operating instructions. At the same time, we remind you that installation in accordance with the installation manual and proper use in accordance with the instruction manual will ensure that the Blulog solution is functioning properly.

Blulog Team

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ABOUT

Blulog Ethernet / Wi-Fi / GSM Hub is the 3-channel communication module: database, operator panel and Blulog monitoring solution.

HARDWARE INSTALLATION

The equipment may only be installed by authorized personnel in the order specified in this manual.



To start using your hub, you should first find a well-ventilated space, and leave at least 5cm of space on all sides. Restricted air flow could cause overheating.



Next, install the antenna, by screwing it into the socket you can find on the back panel of the hub.



If you have a Wi-Fi option, please plug the module into USB socket located on the front panel of your hub.



If you are using ethernet connection, please plug the ethernet cable into corresponding socket on the front of the hub.



If you are using 2G/3G connection, please open the hub, by unscrewing 4 screws by using a screwdriver. Insert your sim card into a modem, and plug it in into a USB socket as shown on the below pictures. When your modem will be installed, please close the hub by re-fitting the 4 screws.



Last step is to connect your hub to the power source, either 230VDC wall socket or via 12V / 24V cigar socket in truck (appropriate adapters are provided with your hub).

With ethernet connection, the hub uses the Dynamic Host Configuration Protocol (DHCP), and uses port 443 and port 80. The frequency of connection depends on the amount of information: at least 5 minutes, but it can connect more often.

With Wi-Fi connection, the hub first logs into a specific Wi-Fi network and then uses the DHCP protocol. The Hub uses the network in which it is logged-in as an access point.

CONNECT THE HUB TO BLUCONSOLE

Install the hub as shown on the previous chapter. Wait 2 minutes for the hub to switch on. Both green and red diodes should turn on.

Connect the hub to the Internet through an Ethernet cable, the preprogramed Wi-Fi network (using the default SSID „blulog” and password „blulog123”) or 2G/3G network. Once the red diode on the hub has switched on and then off, it means the hub is connected to the Internet and to our server.

If the red diode does not switch off, your IT service should check if the firewall hasn't blocked the connection or try to change the IP address associated to the hub.

Using your email and the password provided, login to your account on our web app with the following link:

<https://www.bluconsole.com/>

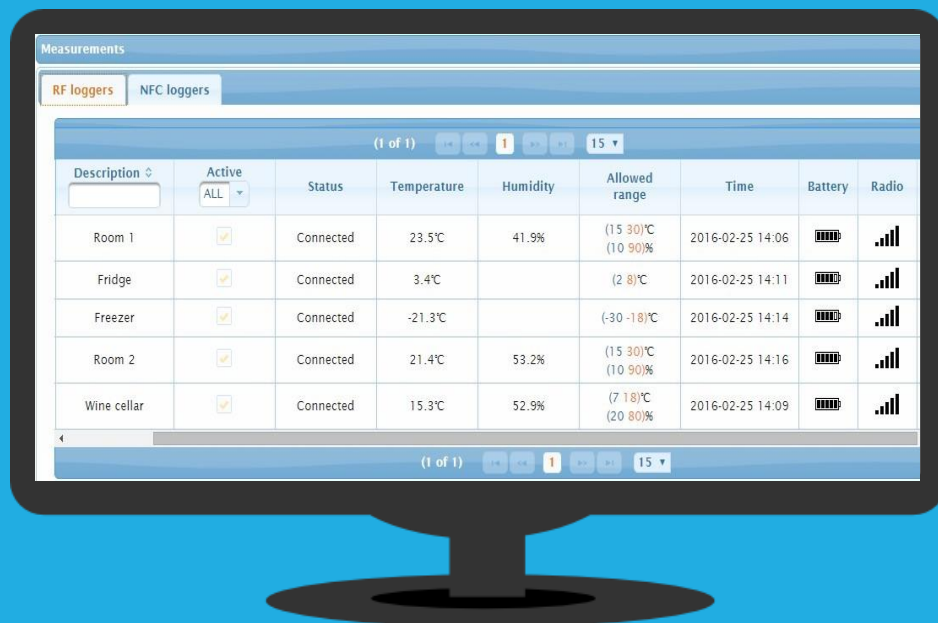
After 20-30 minutes, your hub should appear as „connected” on BluConsole. Once the hub is connected, you can configure if necessary Wi-Fi parameters (SSID name and password) on the „Hubs” page.

CONFIGURE THE LOGGERS

Go to the „Measurements” page where you will see the list of your TDL1-3Y loggers. They will connect one by one (each logger sends temperature data every 10 minutes) and appear as „connected” in the list.



To set up temperature limits (and humidity depending on version), just select the loggers you wish and click on the „Set limits” button top left. You just need to select min and max.



You can now place the hub in its final location and start placing the loggers in the wanted locations. Wait around 20-30 minutes and check on the „Measurements” page to see if all the loggers are connected.

ADD REPEATERS AND POSITION THE DATA LOGGERS BY USING HOLDERS

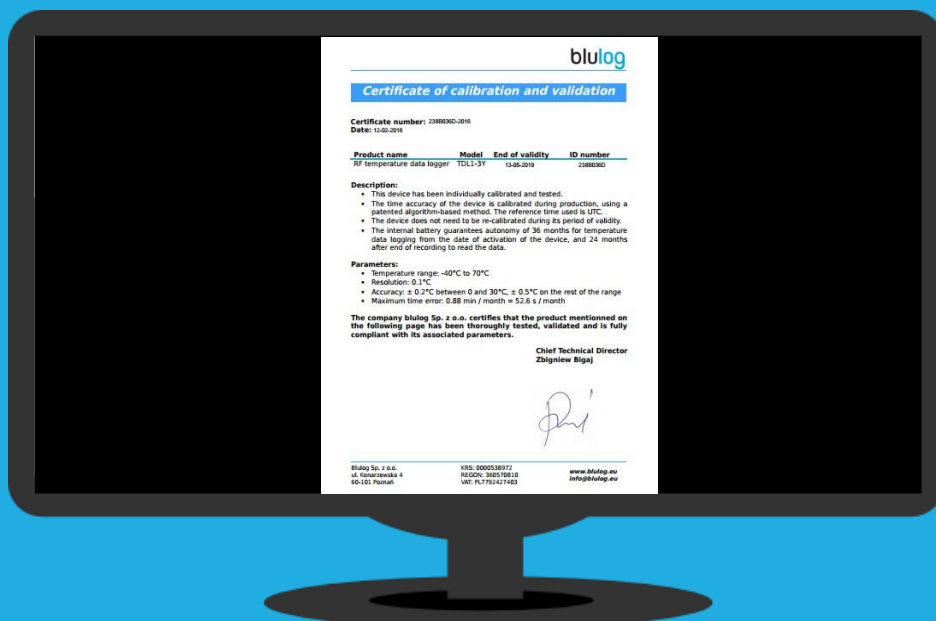
If some loggers are not connected after 30 minutes, position a repeater in proximity of these loggers (they just require to be plugged to power). Then position the loggers on their final position. A holder is provided with each logger to glue it to a dry surface with the help of the double-faced tape provided (just remove the upper layer). After placing the holder on the surface, just screw the datalogger to the holder using the screws provided and a screwdriver (use the two upper holes on the logger).

ACCESS TEMPERATURE REPORTS AND GRAPHS

From the „Measurements” section, you can access the graphs for each logger by clicking on „Chart”. From there, you can choose time periods and also download the corresponding CSV or PDF reports.

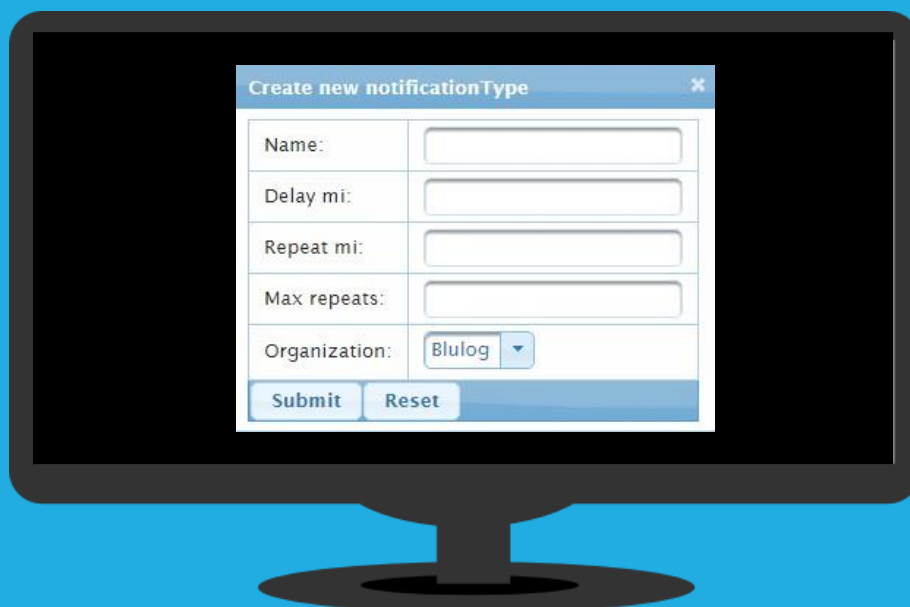


You can also access the calibration certificate by clicking on „Certificate” in the „Loggers” page and download it as a PDF file.

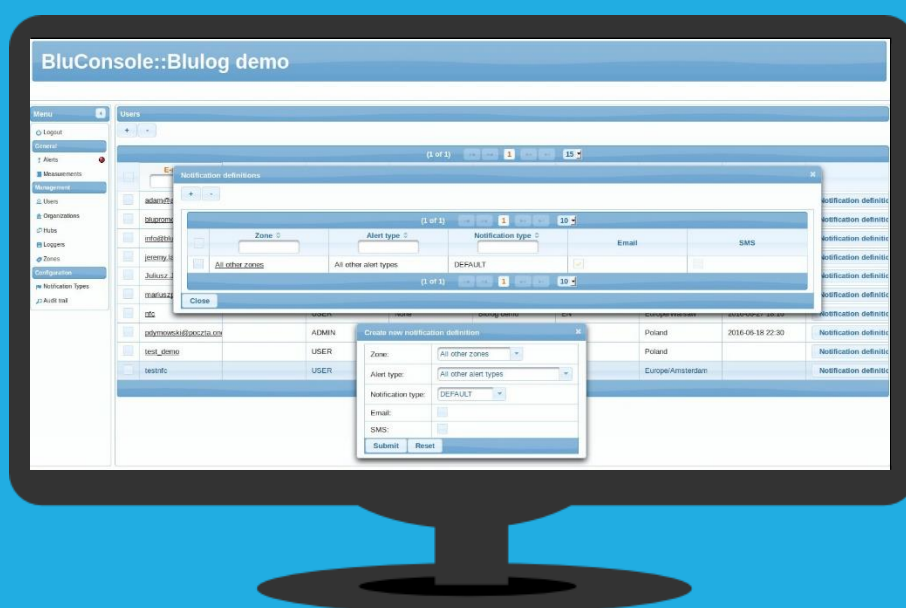


SET UP ALERTS

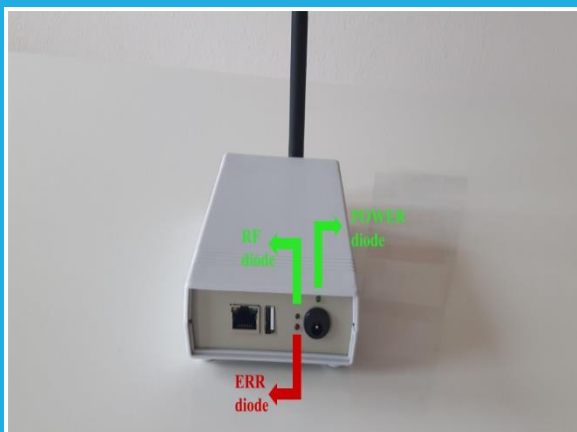
On the „Notification Types” page, you can choose the delay for sending alerts and repeating the alerts by creating a new notification type with the „+” icon. You can have a personalized delay for each logger and choose the notification that goes with the right logger on the „Loggers” page.



Go to the « Users » page and click on the « Notification definitions » button on the right for the selected user. A window will open, and you will see current definitions (by default one definition applies to all zones and to all alert types). You can create a specific notification definition per zone by clicking on the « + » button top left of the window. Then select the right zone, the type of alerts (by default all alert types are selected), the notification type (defined in the page « Notification types ») and whether you wish to receive these notifications via SMS and/or email. You can also apply a new notification definition to all zones (by selecting « All other zones ») but for one specific alert type (for instance « Temperature beyond threshold »)



TROUBLESHOOTING



In the presented picture you can see three diodes located on the hub: two green ones (one POWER diode located above the socket and one RF diode) and one ERR red diode. All three diodes should turn on at the moment of connecting the hub and then the red diode should switch off once the hub is connected to the Internet. Below you will find a brief description of each diode and a helpful table with eventual anomalies/issues, their causes and possible solutions.

POWER diode: indicates if the hub is connected to an energy source. It should turn on at the moment of connecting the hub to the energy source and then stay turned on all the time.

RF diode: should blink from time to time informing about the reception of data transmitted by the loggers.

ERR diode: is linked to the Internet connection. It switches on at the moment of connecting the hub to the energy source and then switches off when the hub is connected to the Internet, either via Ethernet, WiFi or GPRS.

The status of diodes can tell you if the hub is working correctly. If you encounter any issues/anomalies using your hub, please, consult the below-presented table.

Diode	Status	Causes	Solutions
POWER diode	Switched off	Problem related to the power supply	Verify if the connector from the charger is well connected to the hub
			Make sure that you use the 2A charger. If not, try again with another charger
RF diode	The diode stays on after 10 min	Loggers are not activated	Use the BluTag app and scan the loggers via NFC to verify if the recording was started
		Problem with range	Add a repeater or change the position of loggers/hub
ERR diode	The diode doesn't switch on	Problem related to the power supply	Wait 5 minutes, if the diode doesn't switch on, disconnect and reconnect the hub
		Hub started incorrectly	Unplug the hub, wait around 1 minute and replug the hub
	The diode stays on after 10 min	Equipment installed incorrectly	The Ethernet version: make sure that the Ethernet cable is well plugged
			The WiFi version: make sure that the WiFi stick is inserted correctly
			GPRS version: verify if the SIM card is inserted in the modem inside the hub

		For the GPRS version: problem related to the SIM card/operator	Verify if the PIN code is deactivated
			Verify if the APN settings are correct on BluConsole
			Verify if the subscription is still active and if the 2G/3G network is strong enough
		Problem can be linked to IP address	Check with IT service if DHCP is active
		A firewall is blocking the connection	Ask the IT service to authorize the connection (il will appear on the list of devices as « a10lime »)
		A PROXY is blocking the connection	The hub should be connected to a connection not protected by PROXY or use a mobile phone with HotSpot activated to establish connection with the BluConsole application. In BluConsole, choose 'Hubs' from the Menu and click on the ID number of hub, indicate the proxy parameters and update. Wait for the confirmation email sent by Bluconsole, confirming the update.

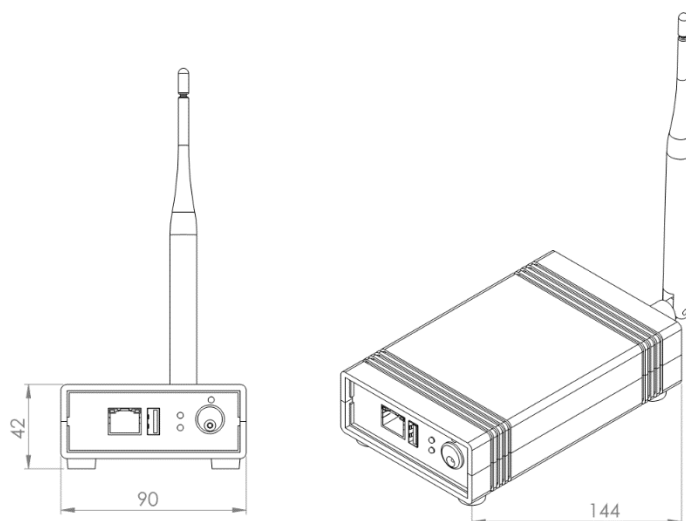
CHARACTERISTIC

- Equipped with RF.
- Equipped with WI-Fi (optional)
- Equipped with GSM (optional).
- Receiving data from the Blulog RF loggers.
- Transmitting data to the Blulog server.
- External power supply.
- Quick and easy installation.
- No interference in encryption of measured data.
- Hub Authentication is based on a 256-bit key imposed during the production process.
- IP 40
- Compliant with standards:
 - CE
 - HACCP
 - ETSI 300220

TECHNICAL SPECIFICATION

Manufacturer	Blulog Sp. z o.o.
Range:	Up to 700m in open, free space
IP:	40
RF Frequency:	ISM
Power supply:	Adapter AC/DC, 12V/2A
Dimmensions:	144mm x 90mm x 42mm
Weight:	300g

DIMMENSIONS



GENERAL WARRANTY CONDITIONS

1. Blulog Sp. z o.o. provides a warranty for a period of 36 months from the date of sale. The guarantor of the warranty service is the seller of the device. Faults discovered at that time will be repaired free of charge. Repair will be made as soon as possible; not exceeding 14 days from the date of delivery of the device to the seller. Guarantor reserves the right to extend the above period in justified cases.
2. The term "warranty repair" is understood as specific actions aimed at the removal of a malfunction under warranty. Devices or components in which defects in material, construction and production are identified and therefore do not function properly will, in the opinion of Blulog, be repaired or replaced for new, free of defects. After servicing, these parts become the property of the seller.
3. The warranty does not cover:
 - a) mechanical, thermal, chemical or any other damages resulting from the act or omission of the user, or the operation of an external force (e.g. atmospheric phenomena, overvoltage or electrical interference, electromagnetic interference etc.);
 - b) damage caused by improper installation (not in accordance with the installation instructions) or misuse, structural modifications and alterations made by the user and third parties, use of accessories other than provided by Blulog Sp. z o.o.
 - c) damage to equipment previously disassembled or repaired by unauthorized persons,
 - d) device with a damaged, illegible, improperly filled or broken warranty seal,
 - e) device with a changed, illegible or deleted ID number,
 - f) replacement of parts with a specified life span and natural wear during normal use such as: batteries, accumulators, fuses etc.
4. In the case of 4 ineffective warranty repairs considered as significant, the buyer is entitled to exchange the goods for a new one, free of defects. If the buyer purchases several units in one kit, the replacement option applies only to this unit, which has been ineffective for four repairs.
5. The buyer is obliged to notify the seller of the defect within 2 days of its disclosure.
6. Only a properly filled warranty card entitles to warranty service.
7. The court competent for the recognition of disputes arising from the provisions of the Guarantee is the court competent for the seat of the Guarantor.
8. The law applicable to the interpretation and application of the provisions of the Guarantee is Polish law.
9. Special conditions of the guarantee are set individually and included in the purchase contract.
10. The special conditions shall take precedence over the general conditions.
11. General conditions of warranty apply in cases and points not described in special conditions.

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