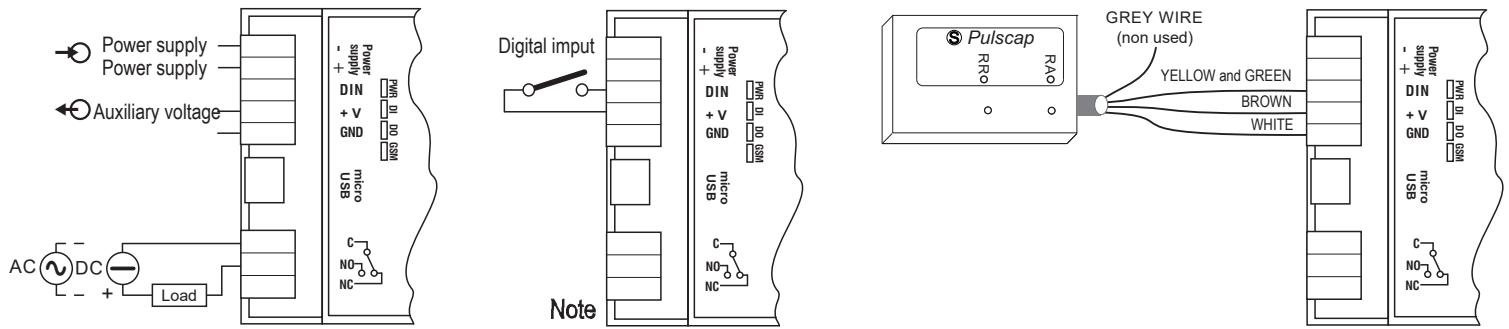


ELECTRICAL CONNECTIONS



Note: The absence of power supply also causes the lack of auxiliary voltage and then in addition to the blackout alarm, the opening of the contact at the input will also be signaled.

BACKUP BATTERY

The device is supplied with a backup battery that allows operation without main power supply.

If you power ON the device for the first time, you must supply power through the + and - terminals, for at least 4 hours, in order to charge the internal battery.

• USB PORT AND POWER SUPPLY

The device has a micro USB socket, on the lower part of the module, which can be used to configure the device and to upgrade the firmware. You can't supply power to the device through the USB socket.

The internal battery can be recharged only from - and + terminals

You can order a dedicated power supply for this device, as an accessory, with code: ALIM-MY2.

LED SIGNALLING ON FRONT PANEL

LED	Status	LED's meaning
GSM (Yellow)	Slow Blinking 0.8s ON □ 0.8s OFF ■	□□□□■□□□□□■□□■ B-Alarm is Connected to GSM Network.
	Fast Blinking 0.2s ON □ 0.2s OFF ■	□■□■□■□■□■□■□■□■ Searching for GSM network or signal missing
PWR (Green)	ON □	The list of COMMANDS isn't empty and the B-Alarm is connected to the GSM network correctly.
	Fast Blinking 0.2s ON □ 0.2s OFF ■	□■□■□■□■□■□■□■□■ Sending SMS error or ring from B-Alarm to mobile phone.
	Slow Blinking 0.8s ON □ 0.8s OFF ■	□□□□■□□□□□■□□■ The list of COMMANDS is empty.
	Two Blinks 0.2s ON □ 0.2s OFF ■	□■□■□■□■□■□■□■□■ Error while entering the PIN code of the SIM card.
	Three Blinks 0.2s ON □ 0.2s OFF ■	□■□■□■□■□■□■□■□■ The SIM card is not inserted correctly.
Four Blinks 0.2s ON □ 0.2s OFF ■	□■□■□■□■□■□■□■□■ B-Alarm does not receive the GSM network signal	
Five Blinks 0.2s ON □ 0.2s OFF ■	□■□■□■□■□■□■□■□■ B-Alarm is initialized but not connected to the GSM network.	

LIST OF SMS EXECUTABLE COMMANDS

COMMAND	SINTAX	EXAMPLE
ALCOUNTEN: Enables the counter alarm when the threshold is exceeded	ALCOUNTEN = <chn>, <threshold>	ALCOUNTEN = 1, 123456789
ALDIS: Disables the input alarm and the blackout alarm	ALDIS = <argument>	ALDIS = 1 (Disables input alarm) ALDIS = POW (Disables blackout alarm)
ALEN: Enables the input alarm and the blackout alarm	ALEN = <chn>, <status>	ALEN = 1,open (Enables alarm on opening) ALEN = 1,close (Enables alarm on closing) ALEN = POW (Enables blackout alarm)
NOTE: in the example «ALEN = 1, open» is used to change the status when the alarm is triggered (open or closed) If the status is empty «ALEN = 1», the command enables the alarm with the last configured configured stored status.		
ALTOT: Shows the totalizer alarm configuration	ALTOT?	
ALTOTDIS: Disables the totalizer alarm	ALTOTDIS= <chn>	ALTOTDIS = 1
ALTOTEN: Enables the totalizer alarm and sets a threshold value	ALTOTEN= <chn>, <threshold>	ALTOTEN = 1, 123456789
CFGOUT: Shows the digital output configuration or sets the digital output as N.C. or N.O.	CFGOUT? CFGOUT = <chn>, <status>	CFGOUT? (Shows output configuration) CFGOUT = 1, NC (Sets output as N.C.) CFGOUT = 1, NO (Sets output as N.O.)
CLK: Shows the clock value or sets time and date (after + quarters of an GMT hour are shown)	CLK? CLK = <gg/mm/aaaa> <hh:mm:ss> <GMT>	CLK? (Shows the clock value) CLK = 1/2/12 8:40:53 +4 (Sets the clock at 1/2/12 8:40:53 GMT+1) CLK = 22/01/2018 12:00:00 -8 (Sets the clock at 22/1/18 12 o'clock GMT-2)
CLOSE: Closes the digital output	CLOSE = <chn>	CLOSE=1
COUNT: Shows the counter value	COUNT?	
COUNTE: Shows the counter value and resets the counter	COUNTE= <chn>	COUNTE = 1
COUNTSET: Umposes a value on the counter	COUNTSET= <chn>, <value>	COUNTSET = 1, 999999990 (Sets the counter to 999999990)
CREDIT: Shows the remaining credit	CREDIT?	
CREDITPARAM: Shows the actual message for the remaining credit request or sets the new message for the remaining credit request	CREDITPARAM? CREDITPARAM = <text message>	CREDITPARAM=PRE CRE SIN (Shows the actual message) CREDITPARAM = Balance (Sets the new Message: «Balance»)
POSTPONED COMMAND: Execution of Fast Commands at a given date / time. See Fast Commands list on page 7	0-15, <+> <DD/MM/YYYY> <hh:mm:ss>	8 (The Fast Command 8 is executed immediately) 8, 01/01/2012 12:00 (The Fast Command 8 it will be executed on 01/01/2012 at 12 o'clock)

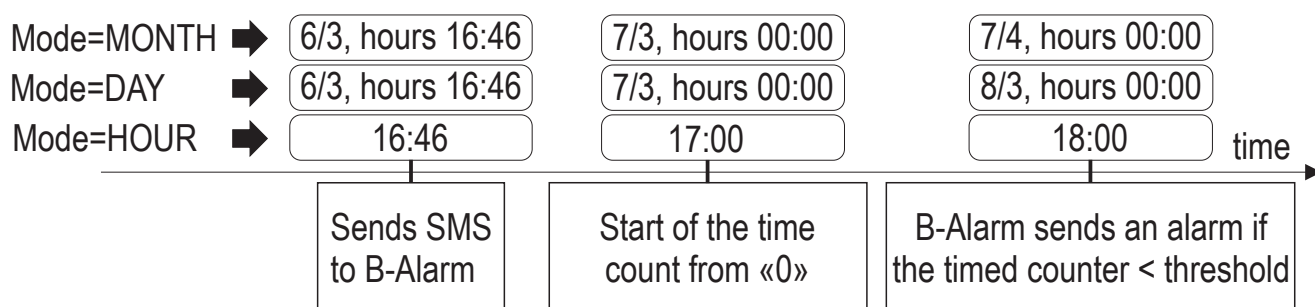
LIST OF SMS EXECUTABLE COMMANDS

DELTA: shows the status of the low production alarm configuration or sets the low production alarm	DELTA? DELTA = <value>, <enable>,<mode>	DELTA? DELTA1? DELTA=D (Disables the low production alarm) For the other commands, see the examples:
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DELTA1=345,E,MONTH (Enables the low production alarm to the 345 value: If, starting from 0, e.g. on 7/3, the digital input counter doesn't exceed 345, within one month, an alarm is triggered automatically at the end of the month).

DELTA1=333,E,DAY (Enables the low production alarm to the 333 value: If, starting from 0, e.g. on 7/3, the digital input counter doesn't exceed 333, within one day, an alarm is triggered automatically at the end of the 24 hours).

DELTA1=9,E,HOUR (Enables the low production alarm to the 9 value: If, starting from 0, e.g. at 17:00, the digital input counter doesn't exceed 9, within one hour, an alarm is triggered automatically at the end of the 60 minutes).



COMMAND	SINTAX	EXAMPLE
FACTORY: Loads all the default values deleting the current configuration	FACTORY = <pass>	FACTORY = 3387
FWCODE: Shows the firmware version	FWCODE?	
HYSTIME: Inhibition time of input alarm before generating of the next.	HYSTIME = <argument>, <min.>	HYSTIME=1, 300 HYSTIME=POW, 3
IDOPERATOR: Shows or sets the mobile phone operator configuration	IDOPERATOR? IDOPERATOR=<id>	IDOPERATOR=0 IDOPERATOR=1 IDOPERATOR=2
IN: Shows the digital input value	IN#?	IN1?
NUMCREDIT: Shows or sets the number for the residual credit request	NUMCREDIT? NUMCREDIT = + <phone_number>	NUMCREDIT=+404 NUMCREDIT=+40916 NUMCREDIT=+4155
NUMIN: Shows or adds a phone number into the commands list	NUMIN? NUMIN=<phone_number>	NUMIN? NUMIN=+39 3281234567
NUMINE: Erases a phone number from the commands list	NUMINE=<phone_number>	NUMINE=+39 3411234567
NUMOUT: Shows or adds a phone number to the alarm list	NUMOUT? NUMOUT=<phone_number>	NUMOUT? NUMOUT=+39 3331234567
NUMOUTE: Erases a phone number from the alarm list	NUMOUTE=<phone_number>	NUMOUTE=+39 3301234567

LIST OF SMS EXECUTABLE COMMANDS

COMMAND	SINTAX	EXAMPLE
NUMSIM: Adds a phone number to the SIM extended phone-book to perform a command on the ring tone.	NUMSIM=<phone_number>	NUMSIM=+39 3301234567
NUMSIME: Erases a phone number from the SIM extended phone-book to stop a command execution on the ring tone.	NUMSIME=<phone_number>	NUMSIME=+39 3331234567 NUMSIME=ALL (Erases all numbers)
OPEN: Opens the digital output	OPEN=<chn>	OPEN = 1
PASS: Shows the password	PASS?	
RINGCMD: shows or configures the command to be performed on the ring tone see command list on p. 7	RINGCMD? RINGCMD=<command>	RINGCMD=NULL RINGCMD=STATUS? RINGCMD=COUNT? RINGCMD=CLOSE=1
SIMCONFIG: Shows or sets the SIM card configuration	SIMCONFIG? SIMCONFIG=<command>	SIMCONFIG=DATA or VOICE SIMCONFIG=SMSCREDIT SIMCONFIG=RINGCREDIT SIMCONFIG=SWSMSDISABLE SIMCONFIG=SWSMSENABLE SIMCONFIG=PINENABLE,0000
SMSCENTER: Shows or sets the number of SMS service center	SMSCENTER? SMSCENTER=+00000000	
STATUS: Shows the B-Alarm status	STATUS?	
TCLOSE: Closes the digital output for a pre-set time	TCLOSE = <chn>, <seconds>	TCLOSE=1,20 TCLOSE=1,300
TIMER: Shows or sets the configuration of one of the four timers	TIMER? TIMER<number>? TIMER=<enable/disable> TIMER<number>=<enable/disable>	TIMER? TIMER1? TIMER4? TIMER=ENABLE TIMER=DISABLE TIMER4=ENABLE TIMER1=DISABLE
TOGGLE: Changes the output status	TOGGLE=<chn>	TOGGLE=1
TOPEN: Opens the digital output for a pre-set time	TOPEN = <chn>, <seconds>	TOPEN=1,20 TOPEN=1,300
TOT: Shows the totalizer value	TOT?	
TOTE: Shows and resets the totalizer value	TOTE#?	TOTE1?
TOTSET: Sets the totalizer value	TOTSET=<chn>, <value>	TOTSET=1, 99999990

LIST OF SMS EXECUTABLE COMMANDS

COMMAND	SINTAX	EXAMPLE
ADDCLK: Adds or subtracts an offset in seconds to the internal clock	ADDCLK = <offset_seconds>	ADDCLK = +3600 ADDCLK= - 1522
AL: Shows the configuration of input alarm	AL?	
ALCOUNT: Shows the configuration of counter alarm	ALCOUNT?	
ALCOUNTDIS: Disables the counter alarm	ALCOUNTDIS = <chn>	ALCOUNTDIS = 1

LIST OF EXECUTABLE COMMANDS BY A RING, EVENT OR FAST COMMAND

The Easy Setup software allows you to program the B-Alarm. The reception by the device of a phone ring or a particular event or a fast command causes the execution of one of the following commands:

CLOSES THE OUTPUT	CHANGES THE OUTPUT STATUS	COUNTER RESET
CLOSES THE TIMED OUTPUT	REMAINING CREDIT REQUEST	DISABLES PHONE-RING COMMAND
OPENS THE OUTPUT	INPUT ALARM STATUS REQUEST	ENABLES PHONE-RING COMMAND
OPENS THE TIMED OUTPUT	COUNTER VALUE REQUEST	ENABLES TIMER 1, 2, 3, 4
ENABLES ALARM IF INPUT IS CLOSED	TOTALIZER VALUE REQUEST	DISABLES TIMER 1, 2
ENABLES ALARM IF INPUT IS OPEN	INPUT STATUS REQUEST	DISABLES POSTPONED COMMAND
DISABLES THE INPUT ALARM	B-Alarm STATUS REQUEST	ENABLES POSTPONED COMMAND

Using the Easy Setup software, all the previous commands can be combined with a fast command.

SIM CARD REMAINING CREDIT

The SMS you must send to obtain the remaining credit from the mobile operator is determined by the SIM:

Contract SIM cards: You must contact your mobile operator.

SIM from any mobile operators: use the Easy Setup configuration software

(downloadable for free from: www.seneca.it in the easy software products section)

ORDER CODES

Code	Description
ALIM-MY2	Power supply 12V $\overline{\text{=}}$ 1000 mA
FD01	Photodiode-detector for pulse counting 10 Hz max (PULSCAP input).
A-GSM	GSM butterfly adhesive antenna, 3.0 m cable

CONTACTS

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Product Informations	sales@seneca.it