i-MessageAlarm / ES 906

Alarm unit with remote configuration via Ethernet network and possibility for e-mail alarm.

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Description and Application Examples:

i-MessageAlarm is a very versatile alarm unit which besides alerting by sound and light is able to send an e-mail and possibly a sms in case of alarm.

The Alarm can e.g. be used for monitoring refrigerator / freezing rooms, moist in basements and equipment rooms, gas leaks or other surveillance tasks where a sensor is connected to the voltage free contact or by connecting a NTC sensor.
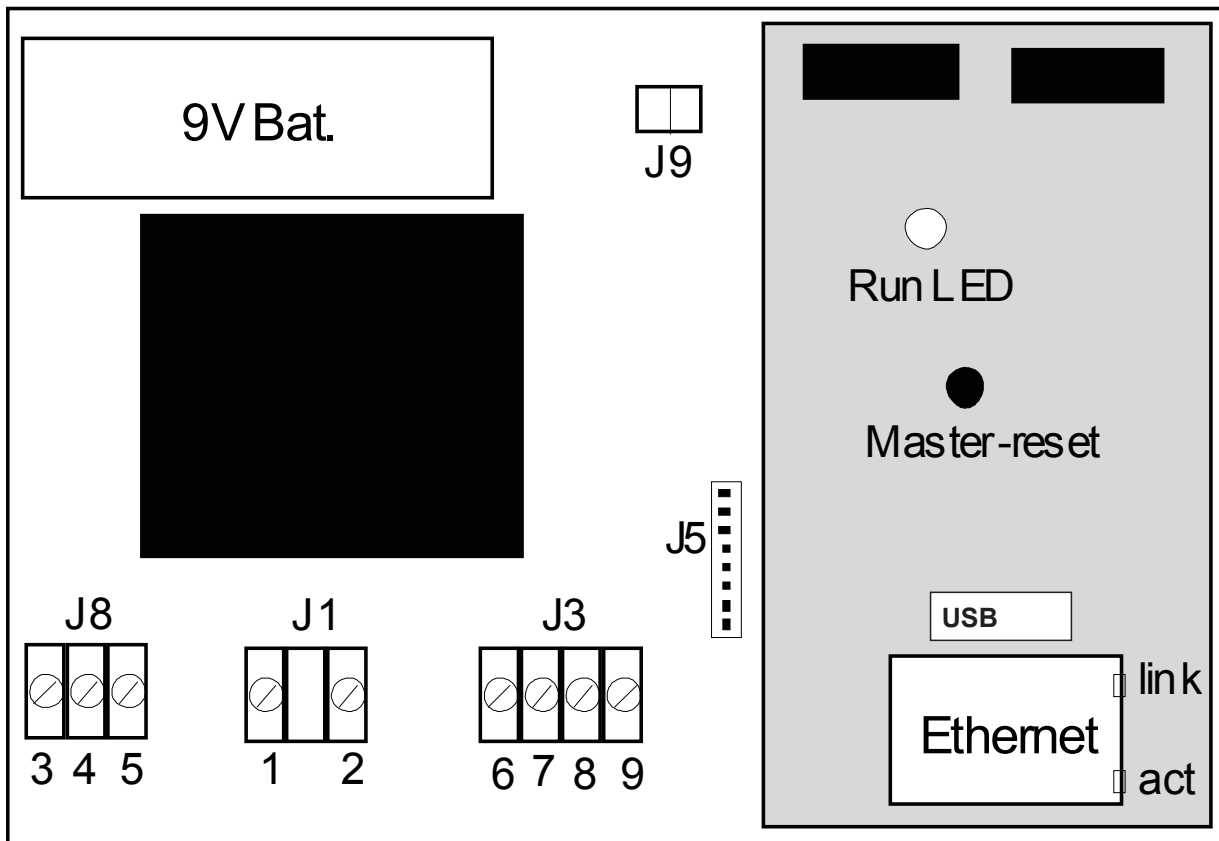
The i-MessageAlarm includes an integrated web-server for control and adjustment of the unit via an ethernet network or the internet. When the unit is connected to the internet, it is able to send an e-mail or sms with a text message of your choice in case of alarm. To receive alarms via sms it requires configuration of ›email to sms converting‹ from one of the many providers of this service on the internet. **Sim card is not required and is not a possibility.**

It is not necessary to connect the i-MessageAlarm to the internet for operation as a local alarm unit. Internet connection is, however, required to change the configuration and to use the service e-mail or sms.

The i-MessageAlarm has a built-in battery backup in case of power failure.

Mounting:

The i-MessageAlarm is to be mounted according ro general applicable mounting regulations. Further more it is to be mounted on a level and stable surface and fixed with screws in the 4 corner holes. The i-MessageAlarm is not to be mounted on moving and vibrating surfaces.

Electrical Connection

Terminal / Button	Description	Comment
1 + 2	230V AC supply	
3	Alarm relay - Normally Open	
4	Alarm relay - Common	6A @ 250V
5	Alarm relay - Normally Closed	
6 + 7	Control in - on&off of the surveillance function	Must be voltage free
8 + 9	Connection of surveillance switch	Must be voltage free
J5	Connector for connection cable, front	
J9	Connection of temperature sensor	NTC 10K or NTC 22K
Ethernet	Connection of network cable to existing network (hub, switch or router).	RJ45 network cable
Master-reset	Press the reset button for 4 seconds on connection of 230V supply to reset the unit. A short beep indicates that the unit has been reset.	The backup battery must be disconnected prior to master reset. The MAC address will not be reset.
USB	Micro USB gate for updating SW in the i-MessageAlarm.	For service purposes

Connection of Patch Cable

i-MessageAlarm must be connected to Ethernet/internet by patch cable. To ease the connection a click-on RJ45 plug is included. The plug is mounted after the patch cable is passed through the gland.

If a prewired patch cable is used and the existing plug is dismounted to pass the cable through the gland, it is very important to note whether the premounted plug was A or B mounted hence it is important that the cable is mounted the same way in both ends.
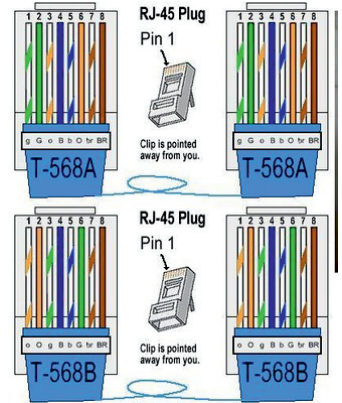
The click-on plug is A or B mounted according to the color coding scheme on the right.

The plug on this picture is mounted according to color code B.

Start Up of i-MessageAlarm

Start up the i-MessageAlarm with the front plate opened.

Turn on the supply for the i-MessageAlarm (connect terminals 6 and 7) and wait a few seconds until the unit is in operation (green lamp on front plate is lit). Run-lamp is flashing and if the network connection is working correctly ›link‹ will be lit and ›act‹ will be flashing randomly. If ›link‹ is not lit, please check the network connection.

Use a computer connected to the same network as i-MessageAlarm and enter: "*http://i-messagealarm/*" in the address field in an internet-browser. You now have access to the i-MessageAlarm and an overview is displayed from which you have access to all functions in the i-MessageAlarm.

In case more i-MessageAlarms should be connected to the same network it is important to connect one alarm at a time and change / give the alarm a name (hostname) before connection the next alarm. Otherwise the internet is not able to identify the separate alarms from one another.

Please Note: When establishing contact to already connected i-MessageAlarms you need to enter the hostname into the internet browser.
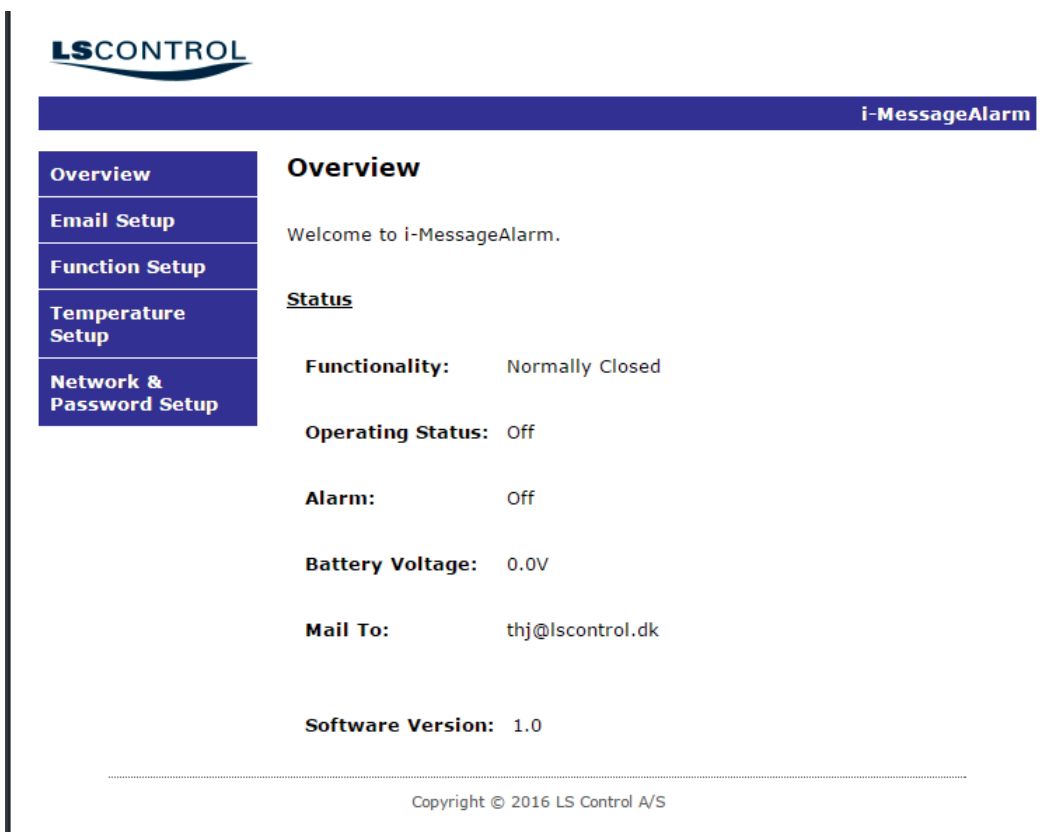
Overview and Functions

The ›Overview‹ screen provides a you with the most important current information from the i-MessageAlarm.

In the left side of the overview screen you find 6 blue bars. Clicking on one of the bars gives access to the different functions and settings in the i-MessageAlarm.

The separate functions are described in the following sections. Also in the back of this manual you will find an overview of all factory settings in the i-MessageAlarm.

Note: some menus requires entry of username and password. The default values are *admin* and *12345* respectively .

Overview

Setting	Function
Functionality	Shows whether the Voltage free contact set is set up to be Normally Open or Normally Closed.
Operating Status	Shows if the alarm function is tuned on or off.
Alarm	Shows if the alarm is in alarm mode at this point in time.
Battery Voltage	The current voltage of the battery is displayed (if battery is connected)
Mail to	E-mail address to whom the alarm messages are sent.
Software Version	Shows the version of the installed firmware

E-mail Setup

This menu is access protected.

E-mail Setup is used for providing email addresses for sending alarm messages in case of alarm.

To use the email function, the user must have access to the existing email server (SMTP server). User name, password, mail address and server address are to be supplied by the IT-department/e-mail service provider. In the case of web-based free emails, you may need to allow access from a foreign application in settings with your mail provider.

From Email Configuration	
Email-address	Address to be used to log on to the SMTP server.
SMTP Server	IP address on SMTP server.
User Name	User name for SMTP server. (typical email address/user name)
Password	Password for SMTP server. (typisk password for email address)
To Email Configuration	
To	Address of the person to whom the mail is to be sent.
Subject	Enter subject to be displayed on the alarm mail.
CC	Address of other person who is to receive a copy of the alarm mail.
Message	Text message to accompany the alarm mail.
Test email configuration	This test e-mail forwards an email with the entered information. This function is used to test that the entered information is correct.

Function Setup

This menu is access protected.
The alarm sound period, the number of times the alarm message is to be sent (if more than once), and, if required, a delay on activation of the alarm are set in this menu.
It is also possible to monitor the current battery voltage (if the battery is connected).

It is important to "Save" configuration if changes have been made.

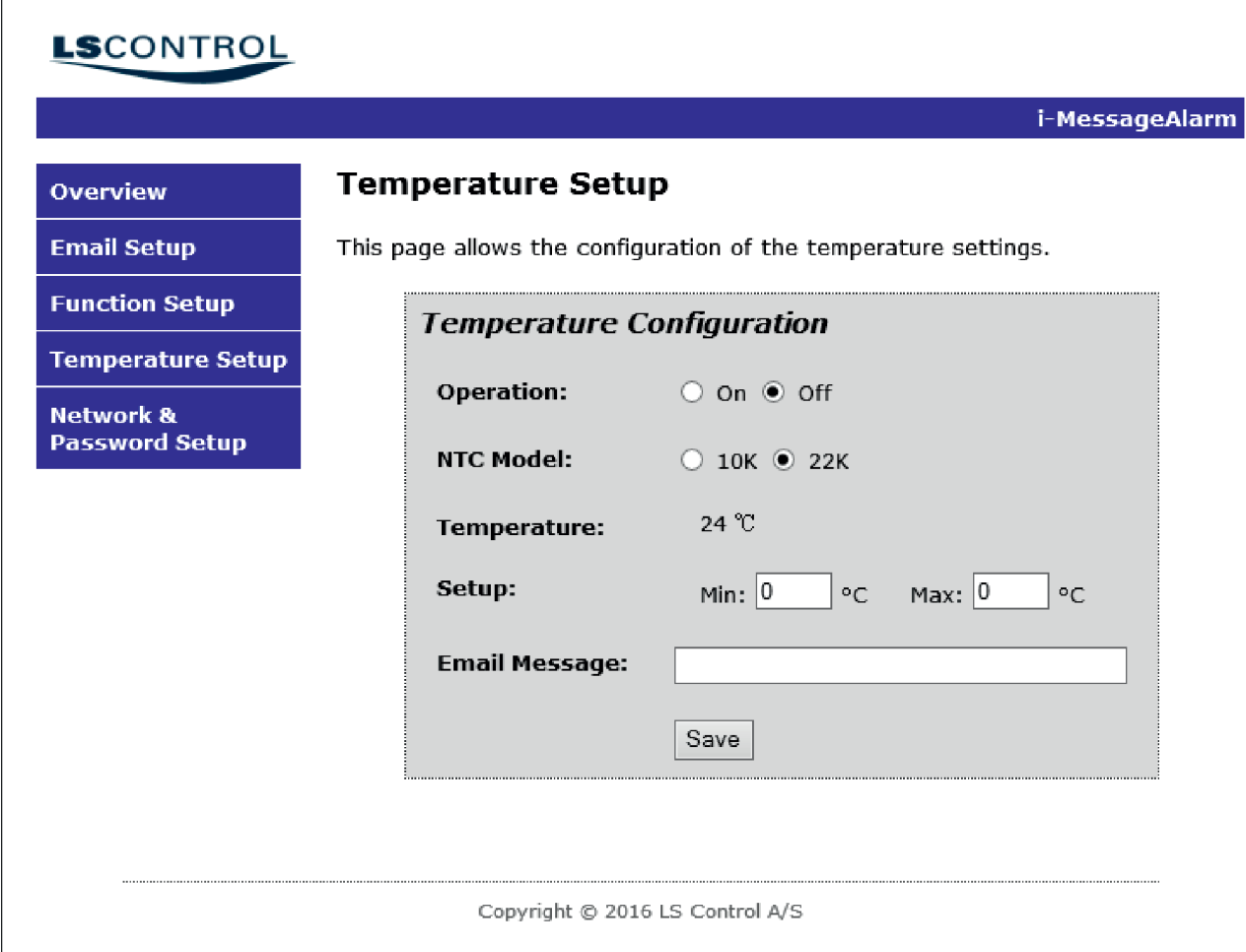| Setting	Function
Function	indicates if the voltage free contact set is set to Normally Closed or Normally Open.
Alarm Delay	Delay from registration of alarm till activation of alarm.
Control Delay	Delay from activation of the *control* button on the front panel till activation of the alarm function.
Email Repeat	Set up time frame for repeating alarm text message per alarm incidence.
Max Email Repeat	Set up the number of times alarm text message is to be sent per alarm incidence.
Sound Period	The period from one beep starts till next beep starts. Can be set to 1/10 of 1-255sec. E.g. sound periode is set to 10 it takes 1sec from beep starts till next beep incl. period of silence.
Sound Duty Cycle	Lenght of beep in percent of sound periode. E.g. sound peride is set to 10 and sound duty cycle to 50 - the lenght of the beep will equal the lenght of silence. If you want longer or shorter beeps the sound duty cycle can be set to a higher or lower percentage.
Battery Alarm	Alarm at low battery voltage can be activated in this field.
Battery Voltage	Display the measured battery voltage (the value is only measured when the unit is in operation). In case Battery Alarm is set to "on" the alarm is activated when the battery voltage falls below 7.5V.

Temperature Setup

This menu is access protected.
The i-MessageAlarm can be set to alert if the temperature falls outside a set temperature range. The current temperature is also displayed.

It is important to press "Save" if changes have been made.

Setting	Function
Operation	Choose ON/OFF to activate/deactivate temperature alarm.
NTC model	Choose if connected temperature sensor is 10K or 22K NTC.
Temperature	Shows current temperature, if temperature sensor is connected.
Setup	Setting of min. and max. temperature limits for temperature alarm.
Email message	Alarm text message to be sent in case of temperature alarm.

Network & Password Setup

This menu is access protected.

The factory network settings include a unique MAC address ready for connection to a network with automatic allocation of IP address (DHCP). If, however, a master reset is performed, the MAC address will be reset to the factory setting. Only in cases where the MAC address has been manually changed it is neccessay to re-enter MAC address after maset reset.

If DHCP is not used on the network, the IP address must be entered manually. Contact your network or IT department for further information.

It is important to press "Save Config" if changes have been made.

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Setting	Function
MAC Address	Displays the unique address of the product. If changed it may take a few minutes before contact to i-MessageAlarm is re-gained, depending on network settings.
Host Name	Can be changed to desired name on web server. Must be changed in case of multiple i-MessageAlarms on same network. Avoid special characters and æ, ø, å.
Enable DHCP	Use automatic IP address allocation. Otherwise applicable values must be entered in below 5 fields.
IP address	IP address on network without DHCP.
Gateway	IP address on gateway for network without DHCP.
Subnet Mask	Network subnet mask for network without DHCP.
Primary DNS	Primary DNS server for network without DHCP.
Secondary DNS	Secondary DNS server for network without DHCP.
Password	Password / access code for the i-MessageAlarm configuration menus.

Factory Settings

LSCONTROL

Name	Factory setting	Min	Max	Comment
Access codes for configuration menus				
User name	admin			Cannot be changed
Password	12345			See Network & Password setup
Function Setup				
Function	Normally Closed			
Alarm Delay	5	0	255	
Control Delay	5	0	255	
Email Repeat	1	0	255	
Max Email Repeat	1	0	255	
Sound Period	10	1	255	af 1/10 sec.
Sound Duty Cycle	10	0	100 %	0 = disabled
Battery Alarm	OFF	OFF	ON	
Temperature Setup				
Operation	OFF	OFF	ON	
NTC Model	10K	10K	22K	
Setup:				
Min	-10 °C	-20 °C	100 °C	
Max	50 °C	-20 °C	100 °C	
Email Message	Temperature Alarm			For entering of user defined alarm text
Network & Password Setup				
MAC Address	See browser			Can be manually changed. Default is restored by MasterReset
Host Name	i-messagealarm			Multiple alarms on same network must be named differently.
Enable DHCP	ON	OFF	ON	
IP Address	Blank			Only to be used on networks without automatic allocation of IP addresses (DHCP).
Gateway	Blank			
Subnet Mask	Blank			
Primary DNS	Blank			
Secondary DNS	Blank			
Password	12345			can be changed to your choice.

Custom Setup

Changes may be entered below.

Host Name	
Password	
Possibly modified MAC-address	

Technical Specifications:

Power Supply:	230V AC, 50Hz
Power Consumption	Max 2,4W
Enclosure	IP 42
Dimensions (hxbxd)	123x120x56mm
Weight	600g
Ambient Temperature	0-40°C
Battery	9V (alkaline is recommended)
Ethernet	RJ-45
Alarm input / Voltage free contact set	Ground Controlled (Terminals 8,9)
On/off input	Ground Controlled (Terminals 6,7)
Sensor input	10K or 22K NTC resistor

WEEE

Electrical and electronic equipment contains material which may be hazardous to human health and environment if it is not handled correctly at disposal.

Electrical and electronic equipment is marked with a crossed-out weelie bin logo. This logo symbolises that electrical and electronic equipment must not be disposed of together with normal household waste but must be collected separately.

Contact your local authorities for further information on disposal of equipment under the WEE directive.

Applicable Standards
EN 61000-6-1 and EN 61000-6-2 Electromagnetic compatibility (EMC)
EN-60730-1 the Low Voltage Directive.

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