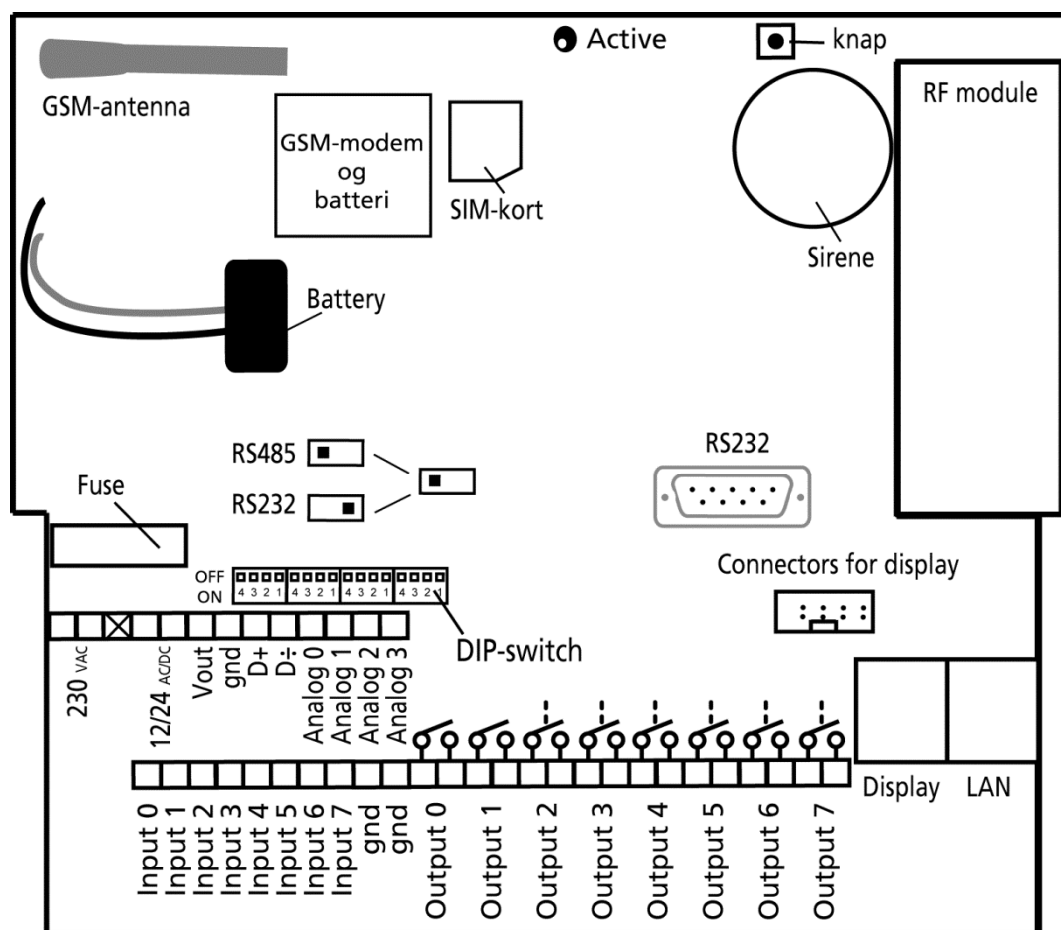




## Mounting

1. Prepare a SIM card so that the PIN code is 1234 or deactivated. Mount the card in the unit. The unit now has 1234 as password or runs without a password. The card is turned the way shown below.
2. Connect inputs, outputs and power cable (230V/12-24V AC/DC) and if necessary, connect a rechargeable 9V battery.
3. Connect power. The diode lights up, and after approx. 20 secs. It starts flashing every 2. secs., and the unit is ready.

### multiGuard Master IO interior



#### DIP switch for analog input

- 1 ON: 0-10 VDC
- 2 ON: 0/4-20 mA
- 3 ON: PT-100
- 4 ON: Profort temperature probe
- All OFF: digital input

#### Voltage

- Output: AC max. 230 VAC, 6A  
DC max. 30 VDC, 6A
- Input, digital: max. 24 VDC  
max. power 2 mA
- Input, analog: max. 0-10 VDC  
Press only voltage when DIP switch 1 is on and 2-4 are off

## SET-UP

### Set-up with browser on the internet



1. Open a browser on your PC, tablet or smartphone.
2. Type <http://setup.masterview.dk> in the address bar (or login via [www.profort.dk](http://www.profort.dk)). Log in to the portal or create a new user. An unlimited number of units can be assigned to each user and several users can create the same units.
3. Create a new unit in the list and choose multiGuard Master IO as unit. When you press SAVE the portal sends a text message to the unit, which assigns it to the Profort server via GPRS/Internet on the SIM card. The unit USERNAME is now the telephone number (can be used if you wish to control the unit via the Profort app.) All additional set-up is now sent as data.
4. Fill in the rest of the required information and press 'send and save'.
5. The unit is now ready to use.

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For further help: see the manual on [www.profort.dk](http://www.profort.dk)

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# SET-UP

## Set-up with text message



1234 = password, 0 = zero, space counts as a character and is therefore important. Password is omitted if PIN is deactivated on SIM card

Define the phone number of the unit, change password and add an ID text	1234 N0 88888888 yyyy ID-TEKST (N0 = N + zero)	1234=current password, N0, 88888888 = mobile number of unit Optionally yyyy = new four-digit password Optionally ID text: First text in all messages from unit (max. 32 characters).
<b>Receivers</b>		
Create	1234 N1 11111111  1234 N2 11111111 #	Creates receiver 11111111 in space no. 1 to receive alarm as text message.  Creates receiver 11111111 in space no. 2 to receive alarm as telephone call.  Additional spaces (25 total): N2..N9, NA (10), NB (11) .. NP (25)
Delete	1234 N1	Deletes receiver in space no. 1
<b>Text on input</b>		
Create	1234 A0 OPEN TEXT  1234 L0 CLOSE TEXT	Text on input 0 on open/break. (A0..A7)  Text on input 0 on close/make. (L0..L7)
Delete	1234 A0  1234 L0	Deletes text for input 0 on open/break. (A0..A7)  Deletes text for input 0 on close/make.(L0..L2)
Only alarm if text is created	1234 CT	The unit ignores input that does not have text connected to it
Create analog input: 0 (V0), 1 (V1); 2 (V2) og 3 (V3)	1234 V1 S yyyy zzzz	Set-up of the scale (yyyy zzzz): (V0..V3) 0-10 V (DIP-switch 1=ON) 0 10 0-20 mA. (DIP-switch 2=ON) 0 20 4-20 mA. (DIP-switch 2=ON) -5 20 PT100. (DIP-switch 3=ON) -309 115 Profort PTC. (DIP-switch 4=ON) -132 63
Create 2 alarm points	1234 V1 M 5 30	The unit sends alarm e.g. when temperature exceeds 5 and 30 degrees C.
Create text in LOW interval	1234 V1 A LOW TEMP	Alarm text in LOW interval (below 5 degrees C.),
Create text in MEDIUM interval	1234 V1 L NORMAL TEMP	Alarm text in MEDIUM interval (between 5 and 30 degrees C.),
Create text in HIGH interval	1234 V1 B HIGH TEMP	Alarm text in HIGH interval (over 30 degrees C.),

## SET-UP

Activate output in case of alarm	1234 G1	(G1 = 10 secs., G2 = 20 secs., G3 = 30 secs., G4 = 1 min, G5 = 2 mins, G6 = 4 mins, G7 = 8 mins, G8 = 16 mins and G9 = constant.) Sets the relay output to activate in case of alarm on an input.
Outputs follow condition on inputs	1234 GA	Indicates that the output follows the corresponding input if text is created. Notice: input signal has higher priority than command S0 (S + zero) and B0 (B + zero)
Deactivate output in case of alarm	1234 G0	The output is not activated in case of alarm (G+zero)
Create macro 0 for return of temperature	1234 M0 TEMP <V1 R>	The unit returns value on analog 1 (e.g. temperature) when text message with text 'TEMP' is sent ('1234' is omitted in macros)

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For further help: see the manual on [www.profort.com](http://www.profort.com)

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### Control with call from telephone

Call the unit. Type in 1234 (password) when the connection is established and await two 'beeps'. Type in the chosen code and end the call.

Code examples:

If calling the multiGuard Master IO and typing...

*00	Pulses relay output for 10 secs.	(*01 - *03 for output 1-3)
*10	Opens relay output	(*11 - *13 for output 1-3)
*20	Closes relay output	(*21 - *23 for output 1-3)
0	Macro 0 is performed	(1 - 9 for macro 1-9)

If you want to **'acknowledge'** an alarm it must be sent as a telephone call. Text messages cannot be acknowledged.

When you've listened to the recorded message and hear a 'beep', you need to type # on the phone keypad and the alarm is disconnected. Thus the following people on the receiver list will not receive an alarm.

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## CONTROL

### Control with text message Upcoming function!

Connect and disconnect the unit	1 2 3 4 ON	Inputs are activated, diode flashes
	1 2 3 4 OF	Inputs are deactivated, diode turns off
Activation of output x	1 2 3 4 S0	Closes output 0. (S0..S7)
	1 2 3 4 B0	Opens output 0. (B0..B7)
	1 2 3 4 P0	Pulses output 0 for 10 secs. (P0..P7)
Download	1 2 3 4 OK	Downloads info about GSM transmission power and battery level. Example: OK>>OK SQ: xx%  xx = transmission power in percentage. 25 % is lowest acceptable value
	1 2 3 4 V1 R	Downloads measurements on analog input 1. (V0..V3)
Connection to the internet	1 2 3 4 EH USERNAME	GPRS traffic starts
	1 2 3 4 EH	GPRS traffic stops

---

### Additional control

The unit can also be managed through the Profort PC program and all the functions can be controlled directly on the Internet.

On the print (on the top, behind the sounder) there is a button with the following 3 functions:

1. Hold down the button at the same time as the power supply is connected, a "beep" sounds after 7 secs. This sets the multiGuard Master IO **to default settings**.
2. Hold down the button in normal operation, a "beep" sounds after 7 secs. If button is released immediately afterwards **macro 1 is performed**. If no function has been saved in macro1, nothing happens.
3. If the button is held down after 7 secs., another "beep" will sound after 14 secs. this activates the '**sabotage**' alarm.

See more in the manual or log on to set-up via the internet on [www.profort.dk](http://www.profort.dk)

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## VOICE MESSAGE

### Recording of voice messages

**OBS: Det er vigtigt at have enheden inden for hørevidde ved programmeringen!!!**

1. Ring op til enheden
2. Afvent en tone
3. Tast evt. password (f.eks. 1234)
4. Afvent to toner
5. Tast '#' og nr. på den besked, der ønskes indtalt, f.eks. #8 (for generel besked)
6. Afvent en tone i telefonen og efter ca. 3 sek., et 'bip' fra enheden.
7. Indtal beskeden indtil der høres et 'bip' fra enheden, (ca. 6 sek.)
8. Afvent to toner i telefonen (ca. 6 sek.).
9. Opkaldet kan afsluttes eller en ny talebesked kan indtales, f.eks.:
10. Tast #1 (talebesked for indgang 1)
11. Afvent en tone i telefonen og efter ca. 3 sek., et 'bip' fra enheden.
12. Indtal talebeskeden for indgang 1 indtil der høres et 'bip' fra enheden (ca. 6 sek.).
13. Gentag evt. pkt. 8-12 for flere beskeder
14. Læg på

### Upcoming function!

Ved forkert password afbryder enheden forbindelsen, og du må ringe op igen.

#### Koder til indspilning af talebeskeder

#8 Generel besked 6 sek.

#### Digitale indgange

#0 for indgang 0 6 sek.

#1 for indgang 1 6 sek.

#2 for indgang 2 6 sek.

#3 for indgang 3 6 sek.

#4 for indgang 4 6 sek.

#5 for indgang 5 6 sek.

#6 for indgang 6 6 sek.

#7 for indgang 7 6 sek.

#### Analoge indgange

#91: analog indgang 1 6 sek.

#92: analog indgang 2 6 sek.

#### Systemalarm

#94: power failure 6 sek.

#95: power ok 6 sek.

#96: sabotage 6 sek.

#97: tilkobling 6 sek.

#98: frakobling 6 sek.

## SPECIFICATIONS

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### **Power supply**

230V AC min. 0,1A

12-24V AC/DC min 0,5 A

NB! Supply must not come into contact with the ground.

### **Usage**

Approx. 30 mA when resting (supplied with 12 V)

5 W supplied with 230 V

### **Outputs**

Max. 6 A at 230V AC

Max. 6 A at 35V DC

10VDC supply. Max 100 mA.

### **Inputs, digital**

Max. 1V, 2 mA (GND)

Min. 18V max 30 V (24V DC)

### **Inputs, analog**

0-10V DC

0/4-24mA

PT-100

Profort temperature sensor (007995)

### **Serial connections**

RS232 for setup or connection to e.g. PLC

Modbus for external units, e.g. energy meters

### **Counter**

Max. 10Hz. with 6 digits. Programmable initial value. Optional alarm threshold with reset.

### **Dimension**

IP65 waterproof box

215x185x95 mm

Weight: 950 g.

### **Temperature**

- 20 °C - +55 °C

### **Phone message memory**

16 messages á 6 secs.

### **Antenna**

1 internal antenna for GSM modem

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## OTHER PRODUCTS IN THE SERIES

### multiGuard® DIN6

- 2 relay outputs
- 4 digital inputs
- 1 analog input
- 230V/12-24V power supply
- 9V rechargeable back-up battery (acquisition)
- Connector for external IR transmitter
- DIN rail with six modules
- Modbus interface



### multiGuard® Master RF

- 8 relay outputs
- 8 digital inputs
- 4 analog inputs
- Wireless 868 Mhz receiver
- 230 V / 12-24 V power supply
- 9 V rechargeable back-up battery (acquisition)
- Modbus interface
- IP-65 box
- Touch display for set-up and programming



### multiGuard® Remote IO

- 1 relay output
- 2 senders of infrared codes for heat pump control
- 3 digital inputs
- 1 built-in temperature and humidity sensor
- 1 recorder for infrared codes
- 12 VDC power supply (inclusive)
- 3,6 V Li-ion back-up battery (inclusive)
- Design box for wall mount
- Plug for external IR-transmitter



### IP-65 box for multiGuard® DIN4/6/9-series

- Waterproof box
- DIN-rail for 4/6/9 modules
- 3 PG inputs

