



# Ontech Teleswitch 9001A

## Ontech Extra Switch 9003



## ***Welcome***

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Thank you for choosing Ontech Teleswitch 9001A.

We hope the product will work as you wish and that you will find this manual correct and easy to follow.

If you have further thoughts or questions regarding the product, visit our website [www.ondico.se](http://www.ondico.se) where you can find more information.

Inquiries can be made at [support@ondico.se](mailto:support@ondico.se).

# Contents

<b>Ontech Teleswitch 9001A.....</b>	<b>4</b>
Overview.....	4
Contents in the package .....	4
Contents in the package .....	5
Connecting the unit.....	5
Controlling the relay.....	5
Control the relay manually .....	5
Controlling the relay with a telephone .....	5
Check position of relay .....	6
Check the temperature.....	7
Settings .....	7
Set the access code .....	7
Set the number of rings before settings .....	8
Reset.....	8
Power failure .....	9
Thunder storm protection .....	9
Functions.....	9
Commands.....	9
Reset button .....	10
The LEDs.....	10
Acknowledges signals at remote operation.....	10
<b>Ontech Extra Switch 9003 .....</b>	<b>11</b>
Overview.....	11
Important about radio communication.....	11
Contents in this package.....	11
Get started .....	12
ID number of the unit.....	12
Set radio channel .....	13
Controlling the relay.....	15
Controlling the relay with a telephone .....	15
Functions.....	16
The LED.....	16
<b>Technical specifications.....</b>	<b>17</b>
<b>Service/support.....</b>	<b>18</b>
<b>Declaration of conformity .....</b>	<b>18</b>

# Ontech Teleswitch 9001A

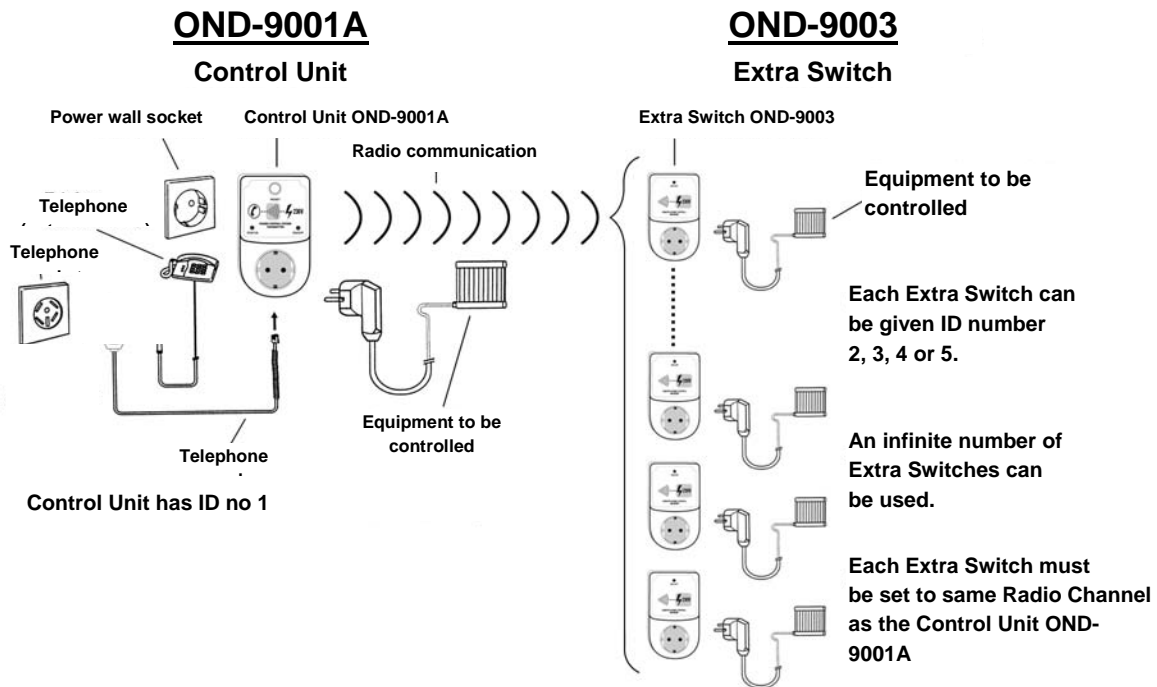
## Overview

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Ontech Teleswitch 9001A has a built-in 230V/16A relay that can be remotely operated by an ordinary telephone. You can call the unit from any telephone and operate it and/or extra relays by using the keyboard of the telephone.

To the unit or the extra relay (Ontech Teleswitch 9003) electrical equipment such as fans, radiators, lamps etc can be connected and turned on or off with a telephone call.

The unit can also give you information whether the temperature is above or below 5 degrees C.



## ***Contents in the package***

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- Ontech Teleswitch 9001A.
- Cord for connection to the telephone line.
- This manual.

## ***Connecting the unit***

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There must not be any other equipment that answers calls (answering machine, fax etc) connected to the telephone line.

1. Connect the telephone cord to the jack on the under side of the unit. A click shall be heard.
2. Connect the telephone cord to the telephone line.
3. Connect the unit to a main power socket.
4. Connect desired equipment to the socket of the unit. The green LED starts slowly blinking.

## ***Controlling the relay***

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### **Control the relay manually**

1. Push the button "RESET". The relay turns on and the red LED is lit.
2. Push the button "RESET" again. The relay turns off and the red LED is turned off.

### **Controlling the relay with a telephone**

1. Call the unit. Be sure your telephone is set to tone –NOT pulse.
2. After two rings the unit answers with two beeps. Consult **Settings** if you want to change the number of rings before the unit answers.
3. Dial **\*0000#** which is your preset access code. If you want to change the access code to your own unique, consult **Settings**.

If you do not enter your access code within 15 seconds a long beep will be heard and the unit is disconnecting the call. If **\*** is pushed, the time will be extended with 8 seconds for each push.

4. The unit answers with two beeps if the code is correct. If the code is not correct, the unit answers with a long beep. Try again.
5. **Turn on the relay** by dialing **\*1\*1#**. The unit acknowledges with two beeps.
6. **Turn off the relay** by dialing **\*1\*0#**. The unit acknowledges with two beeps.
7. **Turn on the relay and program timer**, dial **\*1\*1\*T#** where **T** indicates how many hours the relay will be in on position. (1-99 hours can be chosen). This programming can be done when the relay already is set to on. The time is counted from the moment the programming is done.
8. To end the call, dial **\*0#**. The unit acknowledges with two beeps and is hung up.

## ***Check position of relay***

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Check if the unit (or the extra relays) is set to on or off position.

1. Call up the unit. Be sure your telephone is set to tone –NOT pulse.
2. After two rings the unit answers with two beeps. Consult **Settings** if you want to change the number of rings before the unit answers.
3. Dial **\*0000#** which is your preset access code. If you want to change the access code to your own unique, consult **Settings**.  
If you do not enter your access code within 15 seconds a long beep will be heard and the unit is disconnecting the call. If **\*** is pushed, the time will be extended with 8 seconds for each push.
4. The unit answers with two beeps if the code is correct. If the code is not correct, the unit answers with a long beep. Try again.
5. Dial **\*1\*7#**.  
If the unit answers with short beeps, the relay is turned on.  
If the unit answers with a long beep, the relay is turned off.
9. To the end call, dial **\*0#**. The unit acknowledges with two beeps and is hung up.

## Check the temperature

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You can check whether the temperature is above or below 5° C in the place where the unit is located.

1. Call up the unit. Be sure your telephone is set to tone –NOT pulse.
2. After two rings the unit answers with two beeps. Consult **Settings** if you want to change the number of rings before the unit answers.
3. Dial **\*0000#** which is your preset access code. If you want to change the access code to your own unique, consult **Settings**.  
If you do not enter your access code within 15 seconds a long beep will be heard and the unit is disconnecting the call. If **\*** is pushed, the time will be extended with 8 seconds for each push.
4. The unit answers with two beeps if the code is correct. If the code is not correct, the unit answers with a long beep. Try again.
5. Dial **\*8#**.  
If the unit answers with short beeps, the temperature is above 5° C.  
If the unit answers with a long beep, the temperature is **below** 5° C.
10. To end the call, dial **\*0#**. The unit acknowledges with two beeps and is hung up.

## Settings

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### Set the access code

The default access code is **0000**. This can be altered to any four digit number.

1. Call up the unit. Be sure your telephone is set to tone –NOT pulse.
2. After two rings the unit answers with two beeps. Consult **Settings** if you want to change the number of rings before the unit answers.
3. Dial **\*0000#** which is your preset access code. If you do not enter your access code within 15 seconds a long beep will be heard and the unit is disconnecting the call. If **\*** is pushed, the time will be extended with 8 seconds for each push.

4. The unit answers with two beeps if the code is correct. If the code is not correct, the unit answers with a long beep. Try again.
5. Dial **\*9\*ABCD#**, where ABCD is the new four digit code number. The unit acknowledges the change with short beeps.
6. To end the call, dial **\*0#**. The unit acknowledges with two beeps and is hung up.

## Set the number of rings before settings

Default setting from factory is two rings before answering..

1. Call up the unit. Be sure your telephone is set to tone –NOT pulse.
2. After two rings the unit answers with two beeps.
3. Dial **\*0000#** which is your preset access code. If you want to change the access code to your own unique, consult **Settings**.  
If you do not enter your access code within 15 seconds a long beep will be heard and the unit is disconnecting the call. If **\*** is pushed, the time will be extended with 8 seconds for each push.
4. The unit answers with two beeps if the code is correct. If the code is not correct, the unit answers with a long beep. Try again.
5. Dial **\*6\*R#**, where R is the number of rings before answer (1-16 rings can be chosen). The unit the change with short beeps.
6. To end the call, dial **\*0#**. The unit acknowledges with two beeps and is hung up.

## Reset

The unit can be reset to default with access code **0000** and two rings before answer.

1. Push and hold the RESET-button 10 seconds and the green LED will turn off.
2. Release the button. The unit is now reset to default.



## ***Power failure***

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If there is a power failure the relay will be in off position, even when the power is back.

Also extra switches will be in off position.

It is possible to call the unit and ask for status of relay position. See *Check position of relay*.

## ***Thunder storm protection***

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The unit has a built-in surge protector. If the unit is used on the countryside with airborne power lines a separate thunder storm protector may be needed. Ask your local dealer.

## ***Functions***

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### **Commands**

Below you will find a description of all commands.

<b>Command</b>	<b>What it means</b>
<b>*ABCD#</b>	All programming and operation starts with access code (default it is 0000).
<b>*9*EFGH#</b>	Access code is changed to EFGH (four digit number)
<b>*</b>	Extend call time with 8 seconds for each push.
<b>*N*1#</b>	Use for turning on the relay. N specifies the ID number of the Extra Switch.
<b>*N*0#</b>	Use for turning off a relay. N specifies the ID number of the Extra Switch.
<b>*N*1*T#</b>	Use for turning on a relay and then automatically turn it off after a certain time. N specifies the ID number of the Extra Switch, T specifies time in hours before relay shall be turned off (1-99 hours).
<b>N*7#</b>	Check position of the relay. N specifies the ID number of the Extra Switch. Short beeps = on, long beep=off.
<b>*8#</b>	Check if temperature is above or below 5°C. Short beeps =

	temperature is above 5°C, long beep = below 5°C.
<b>*6*R#</b>	Set number of rings before answer. R indicates the number of rings (1-16 can be chosen).

## Reset button

On the unit there is a push button marked "RESET".

- One push changes the position of the relay.
- If the button is pushed and held for 10 seconds (until the green LED goes off) the unit is reset to factory default.

## The LEDs

On the front of the unit, there are two LEDs, one red and one green.

### GREEN LED

Fast blink	Shown during remote operation
Slow blink	The unit is idle
Turned off	Reset acknowledges or not connected to power line.

### RED LED

On	Relay position on
Off	Relay position off

## Acknowledge signals at remote operation

Short beeps	Correct/Yes/OK
Long beep	Error/No

# Ontech Extra Switch 9003

## ***Overview***

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Ontech Extra Switch 9003 is controlled by short range radio via the control unit Ontech Tele Switch 9001A. The unit has a built in 230V/16A relay. Up to 4 Ontech Extra Switches 9003 can individually be controlled by each Ontech Teleswitch 9001A. The operation range is approximately 30 meters.

## ***Important about radio communication***

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As for all radio equipment also this radio communication can be interfered by equipment in the home environment such as TV-sets, refrigerators, mobile phones, microwaves ovens, electric motors etc . The interference can be temporary or continuous.

This interference can influence the operating range or make radio controlled remote operations impossible. This can also results in that the main unit acknowledges position changing of relays of Extra Switches even if it doesn't happen. Also for the function of checking position of relays of Extra Switches wrong information can be given.

It is important to know this uncertainty for controlling the Extra Switches due to home environment.

## ***Contents in this package***

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- Ontech Extra Switch 9003
- This manual

## Get started

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A condition for starting up the Extra Switch 9003 is that you have a correct installed Teleswitch 9001A (control unit) which can communicate with one or more Ontech Extra Switch 9003.

You must set the **ID number** and the **radio channel** of the Extra Switch .

### ID number of the unit

In a set up with one control unit (Ontech Teleswitch 9001A) and one or more Ontech Extra Switch 9003, it is important that all units have a unique ID number. The control unit (Ontech Teleswitch 9001A) is preset to always have ID number 1. The Extra Switches can be set from ID number 2 to 5.

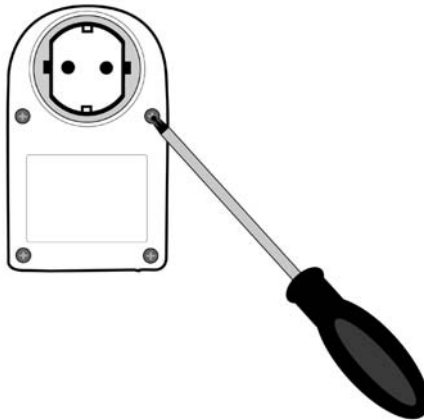
No unit may have ID number 0.

All Extra Switches are set to ID number 2 when delivered.

### SETTING ID NUMBER

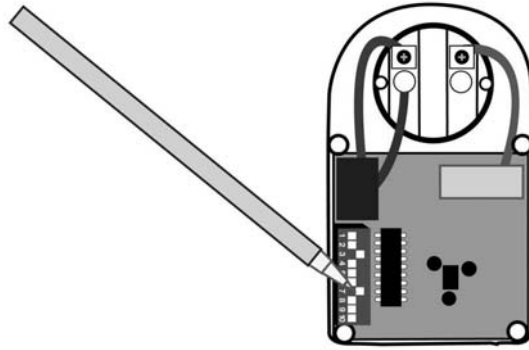
**WARNING.** During this operation the unit must not be connected to the power.

1. Unscrew four screws.



2. Remove the back.
3. Find the DIP-switch (10 small switches on a row). Switch 7-10 is used to set the ID number of the unit.

**IMPORTANT! Only one of the switches should be set in position ON.**



4. Set the desired ID number:  
Switch 7 ON = ID2  
Switch 8 ON = ID3  
Switch 9 ON = ID4  
Switch 10 ON = ID5
5. Continue with setting radio channel if necessary. See below.

## Set radio channel

The system can be set to 64 different radio channels. This can be necessary to do if there is a similar system in the environment which interferes. Two or more systems can be run in parallel if the radio channels are different.

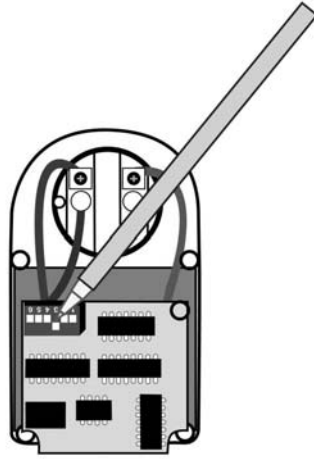
Default radio channel is set at factory and is the same in control unit and Extra Switch.

Only when it is necessary there is a need to change radio channel and it must be set to the same radio channel on both control unit and all Extra Switches. Which radio channel you choose is not important, but all units in the system must have the same.

DIP-switches 1,2,3,4,5 and 6 are used to set the radio channel. Default all are set to OFF.

### SET RADIO CHANNEL ON CONTROL UNIT TELESWITCH 9001A

- **WARNING.** During this operation the unit must not be connected to the power.
- Use a screwdriver to remove the screws and remove the back of Ontech Teleswitch 9001A.
- Find the DIP-switch (6 small switches on a row). DIP-switches 1,2,3,4,5 and 6 is used to set the radio channel.
- Replace the back and the screws



### **SET RADIO CHANNEL ON EXTRA SWITCHES**

- **WARNING.** During this operation the unit must not be connected to the power.
- Use a screwdriver to remove the screws and remove the back of Ontech Extra Switch 9003.
- Find the DIP-switch (10 small switches on a row). DIP-switches 1,2,3,4,5 and 6 are used to set the radio channel.
- It is important that the control unit Ontech Teleswitch 9001A and all Extra Switches 9003 are set to the same radio channel..
- Replace the back and the screws.
- Test by calling the unit and operate the relays. See below.

## Controlling the relay

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With this function you can call up and control the Teleswitch and all Extra Switches individually.

Connect the unit to desired power socket. Connect the equipment you want to control.

**Important.** Check the operating range of the short range radio by calling up the control unit and operate the Extra Switches. This can easily be done with a mobile phone when you are installing the system. It is important that you have some margin for the operating range.

### Controlling the relay with a telephone

1. Call the unit. Be sure your telephone is set to tone –NOT pulse.
2. After two rings the unit answers with two beeps. Consult **Settings** if you want to change the number of rings before the unit answers.
3. Dial **\*0000#** which is your preset access code. If you want to change the access code to your own unique, consult **Settings**.
4. If you do not enter your access code within 15 seconds a long beep will be heard and the unit is disconnecting the call. If **\*** is pushed, the time will be extended with 8 seconds for each push.
5. The unit answers with two beeps if the code is correct. If the code is not correct, the unit answers with a long beep. Try again.
6. **Turn on the relay** by dialing **\*N\*1#**. The unit acknowledges with two beeps. **N** specifies the ID number of the Extra Switch.
7. **Turn off the relay** by dialing **\*N\*0#**. The unit acknowledges with two beeps. **N** specifies the ID number of the Extra Switch.
8. **Turn on the relay and program timer**, dial **\*N\*1\*T#** where **T** indicates how many hours the relay shall be in on position. (1-99 hours can be chosen). This programming can be done when the relay already is set to on. The time is counted from the moment the programming is done. **N** specifies the ID number of the Extra Switch.
9. To end the call, dial **\*0#**. The unit acknowledges with two beeps and is hanging up.

# ***Functions***

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## **The LED**

On the front there is a red LED.

On	Relay position on
Off	Relay position off



## ***Technical specifications***

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### **Ontech Teleswitch 9001A**

Rated voltage/frequency	230V / 50 Hz
Max load	16A / 3680 W
Switch	1 branch
Temperature control	5° C (+/- 2° C)
Temperature range	-30° C to +40° C
Requirements	Meets requirements of EMC, LVD and RTTE directives.
Approvals	Semko, S
Standards LVD	EN60669-2-1, EN61058-1
Standards EMC	EN50081-1, EN50082-2

### **Ontech Extra Switch 9003**

Rated voltage/frequency	230V / 50 Hz
Max load	16A / 4000 W resistive load, 1E5
Switch	1 branch
Temperature range	-30° C till +40° C
Protection class	I
Requirements	Meets requirements of EMC, LVD and RTTE directives.
Approvals	Semko, S
Standards LVD	IEC60884-2-5:1995, IEC61058-1:2000+A1:2001
Standards EMC	EN301489-3/-1:2000

## ***Service/support***

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If the product needs repair or service, contact the reseller. Information and support may also be found at [www.ondico.se](http://www.ondico.se).

## ***Declaration of conformity***

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Ondico AB, Datavägen 14A, 436 32 Askim, Sweden, hereby declares that the products Ontech Teleswitch 9001A and Ontech Extra Switch 9003 is in conformity with the provisions of the Radio & Tele Terminal directive R&TTE 1999/5/EG.







[www.ondico.se](http://www.ondico.se)

