

# MCS Serial IP Adapter Installation Manual

Revision A 2007.07.06



**SCREEN** Home Theater Systems  
**RESEARCH**



## FOREWORDS: Typographic Convention

So that our manuals are easy to read and understand, we have adopted the following typographic convention:

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### Iconography



Indicates additional information concerning the subject.



Indicates a potentially hazardous situation which, if not avoided, could result in serious injury or death.



Indicates a potentially hazardous situation which, if not avoided, could result in minor or moderate injury. It may also be used to alert unsafe practices.



Emphasis an important point which must not be ignored.



<b>Action:</b> W: Written R: Page revised A: Page added D: Page deleted C: Rewritten completely					
Date	Rev. N°	Action	New pages	Rev. révisées	Reason For Change
2007.07.06	A	W			New document



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## 1. Introduction

Congratulations on your purchase!

We want to help you to get the best results from your MCS Serial IP Adapter and to operate it safely. This manual contains information on how to do that; please read it carefully before operating.

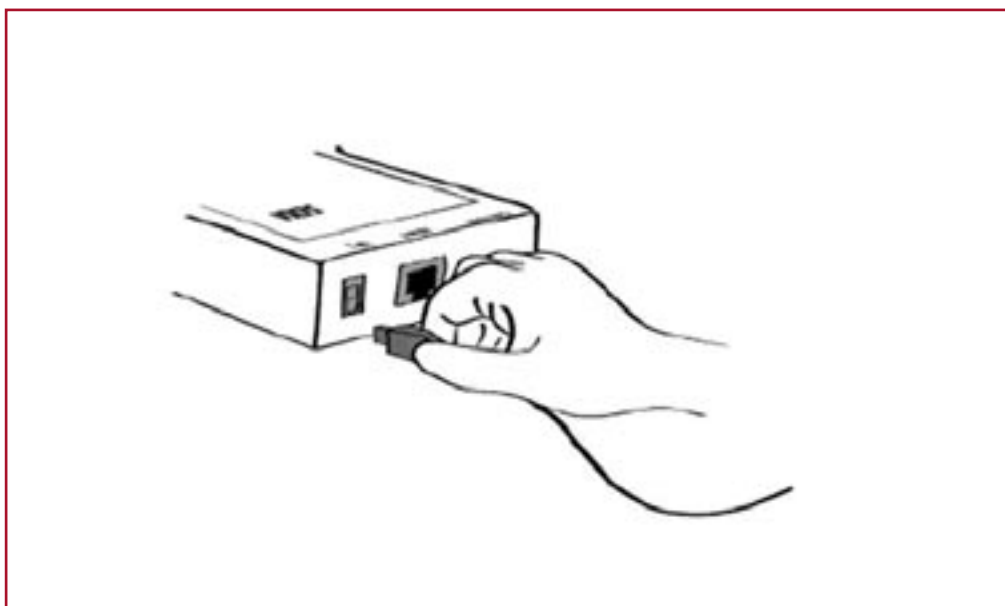
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### Accessories

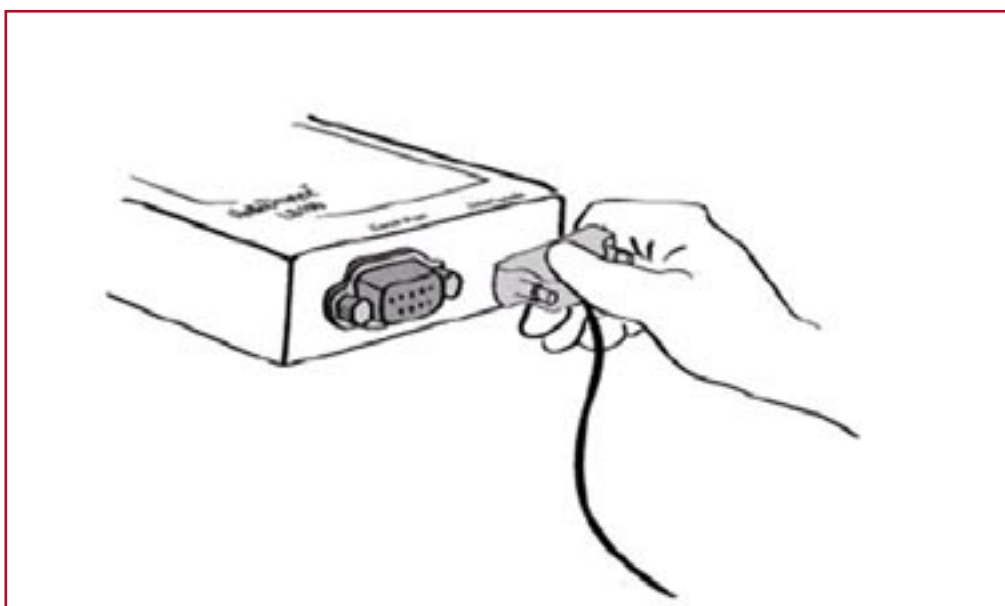
Contents	Description	Yes	No	Remarks
	MCS Serial IP Adapter  (1 piece)			
	Transformer  (1 piece)			
	Null-modem cable  (1 piece)			
	CD-Rom (1 piece)  Technical Sheet (1 piece)			
	Installation manual  (1 piece)			

## 2. Connect The MCS Serial IP Adapter

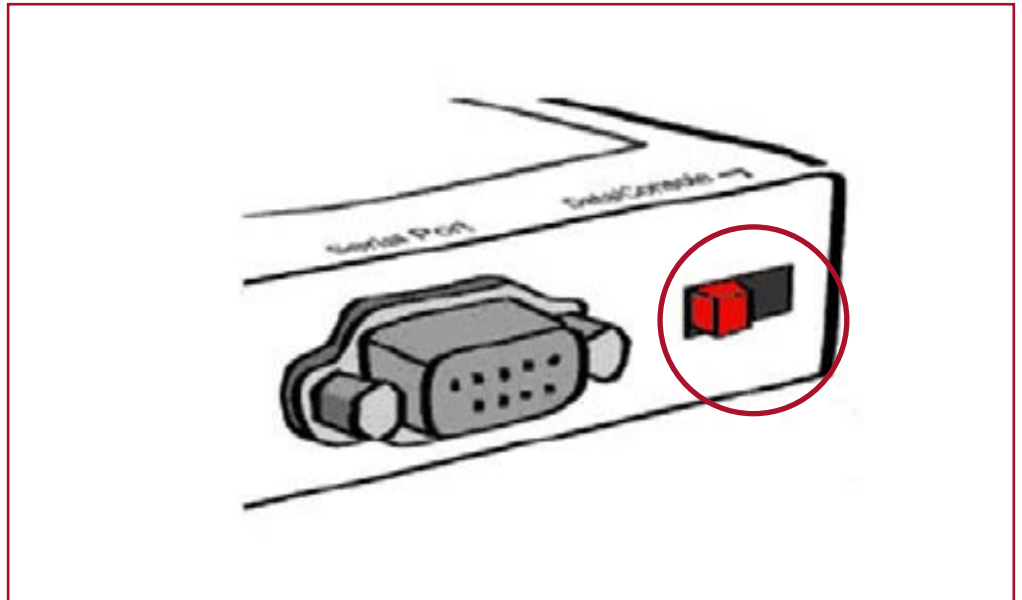
1. Hook up the power to the MCS Serial Ip Adapter.  
The **Power** and **Ready** leds are blinking.



2. Connect the Null-Modem cable between your computer and the MCS Serial Ip Adapter.



3. Slide **Data/Console** switch to the **Console** mode.



### 3. Configure The MCS Serial IP Adapter

Use the HyperTerminal program (Windows) to configure the MCS Serial IP Adapter:

1. Click on the button **Start**.
2. Choose the HyperTerminal application in **Programs>Accessories>Communication**.



It is not necessary to fill in the fields requested in the parameters when using The HyperTerminal program for the first time.

3. Enter a name to describe the connection. Choose an icon then in the **Connection Description** window.



4. Select the COM port to which the adapter is connected in the **Connection** window.



5. Select the following parameters to configure the COM port:

- "9600" for Baud rate
- "8" for Data bits
- "none" for Parity
- "1" for Stop bits
- "None" for Flow control.

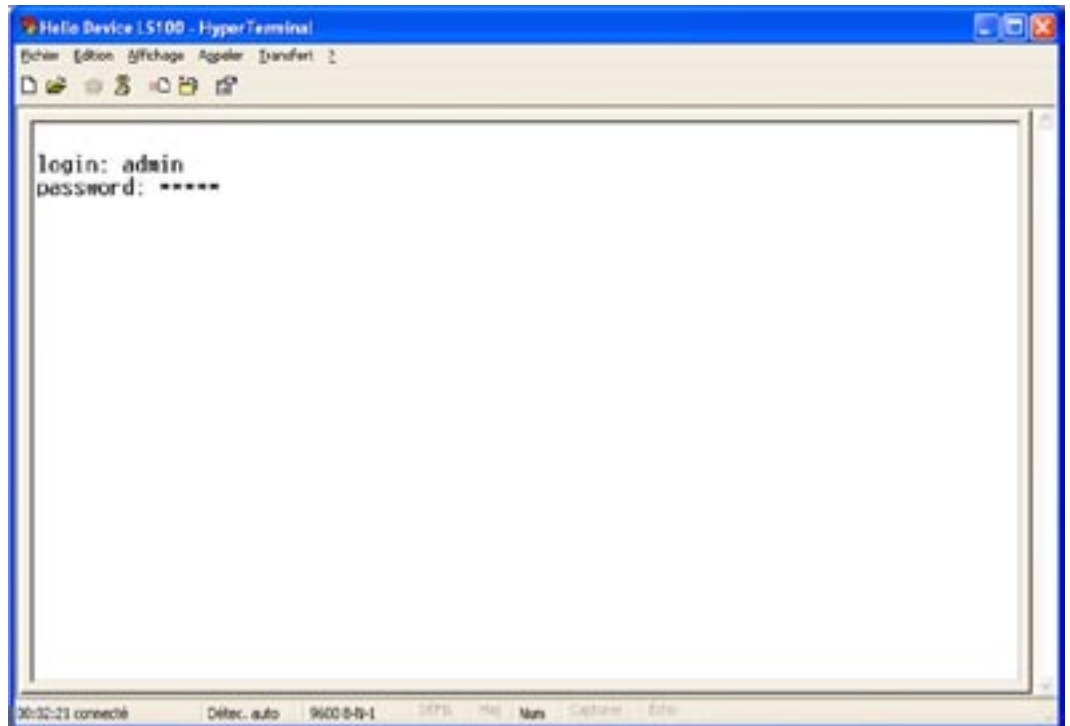


6. Click on the button **OK** and go to the Main Menu.

7. Take the phone off the hook to indicate the connection to the adapter.

8. Press "**Enter**" key at the terminal emulation program.

9. Enter the user name and password. Factory default settings of the user name and password are both "admin".



You can change by the terminal:

- IP address;
- client /server configuration;
- serial port configuration;
- login choice.

## 4. Assign IP Address

1. Assign a static IP address according to the local network.
2. Configure the subnet mask according to the local network.
3. Configure the IP address of the computer connected to Internet according to the local network.

### Example of an IP address assignment:

1. We assigned to the adapter the static IP address 192.168.1.1.
2. We chose an unused IP address by a computer connected to this network = 192.168.1.11 IP address
3. We configured the subnet mask 255.255.255.0.
4. We configured the IP address of the computer connected to Internet = 192.168.1.111.
5. We chose command:

```
> set ip static 192.168.1.11 255.255.255.0 192.168.1.111
```

6. To verify that IP configuration is correct, we typed:

```
> get ip
IP_mode: static
IP_address: 192.168.1.11
Subnet_mask: 255.255.255.0
Gateway: 192.168.1.111
```

## 5. Configure Serial Port



Select the following parameters to configure the connection serie and the driving of the MCS via the MCS BRS:

- baud rate = 9600
- data bits = 8
- parity = none
- stop bits = 1
- flow control = none.

1. Keep the factory default settings.
2. Check this configuration with command:

```
> get serial
Baudrate: 9600
Data_bits: 8_bits
Stop_bits: 1_bit
Flow_control:None
DTR_option: Always_high
DSR_option: None
Interchar_timeout(ms): 50
```

## 6. Apply Changes

Save changed values using "save" and "reboot" commands as follows:

```
> save  
OK  
< reboot
```



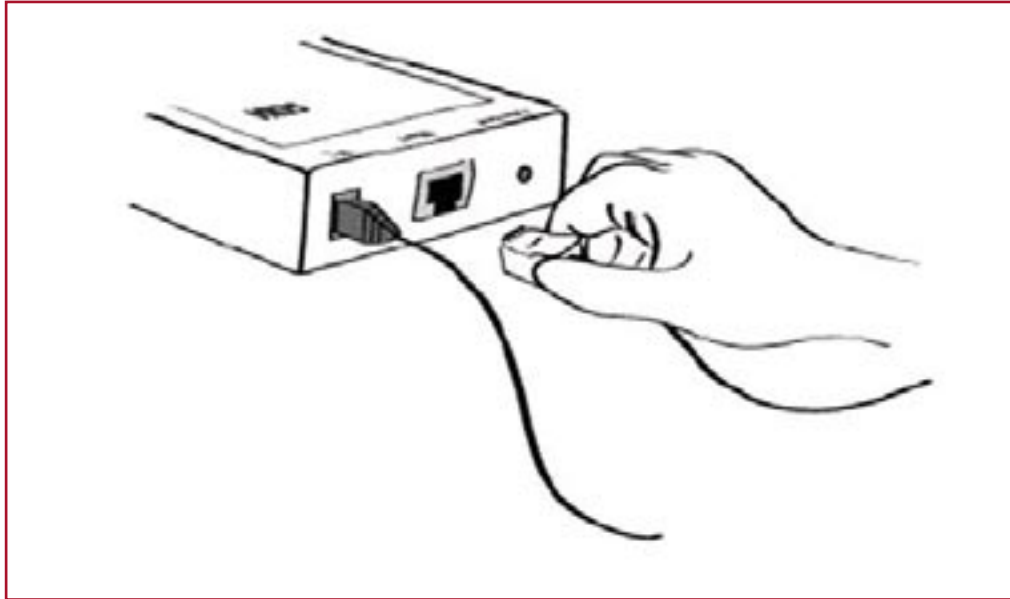
Reboot the MCS Serial IP adapter using 'reboot' command.

## 7. Reach Connection Quickly

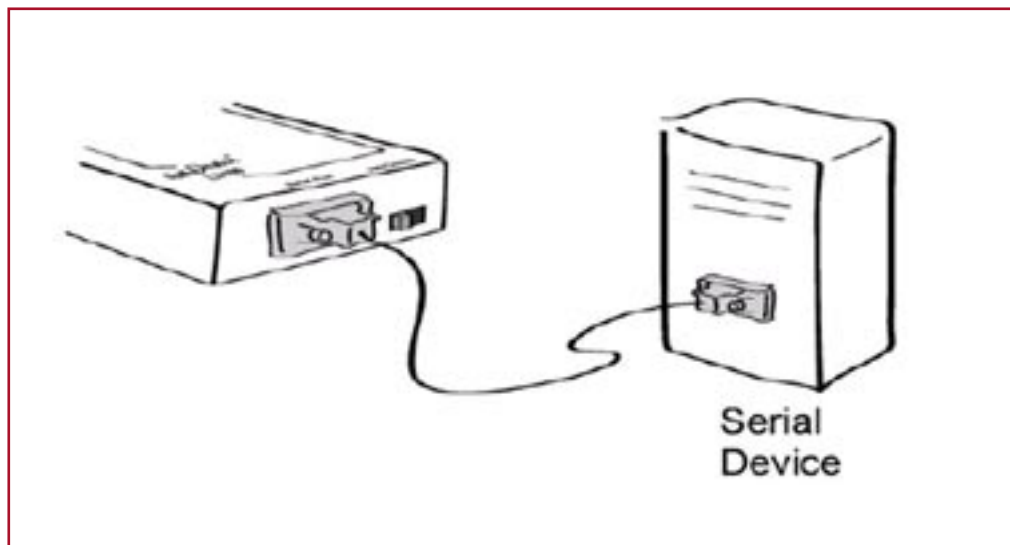
1. Save connection settings from computer towards the MCS Serial IP Adapter.
2. Connection is accessible directly by the menu '**Start> Programs> Accessories > Communication > HyperTerminal >Connection name**'.

## 8. Check Configuration

1. Hook up the Null-Modem cable.
2. Slide Data/Console switch to the **Data** side.
3. Hook up the Ethernet cable to the RJ45 connector of the MCS Serial Ip Adapter with your switch.  
The **Link** LED is blinking.

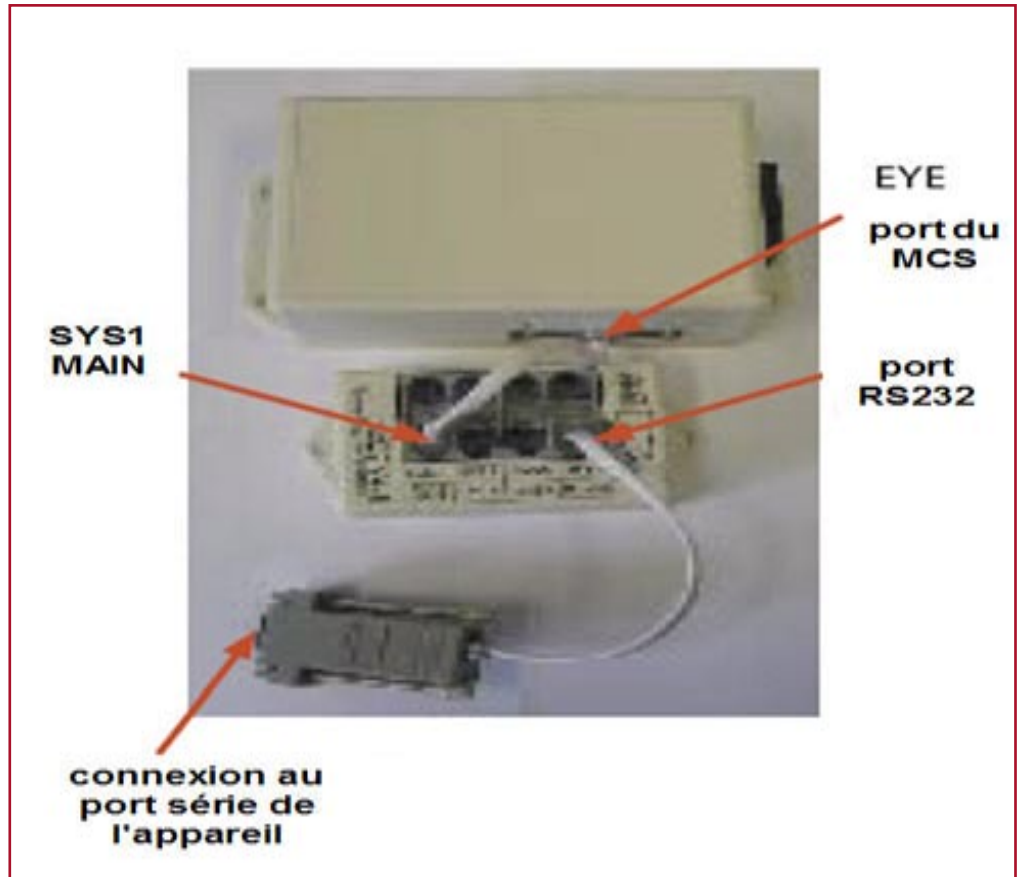


4. Connect the series port of the adapter to the MCS BRS which is itself connected to a MCS.
5. The adapter is connected to the network on the IP address defined before (see chapter "4. Assign IP Address"). It drives the series port by protocol TCP/IP on the 6001 port.

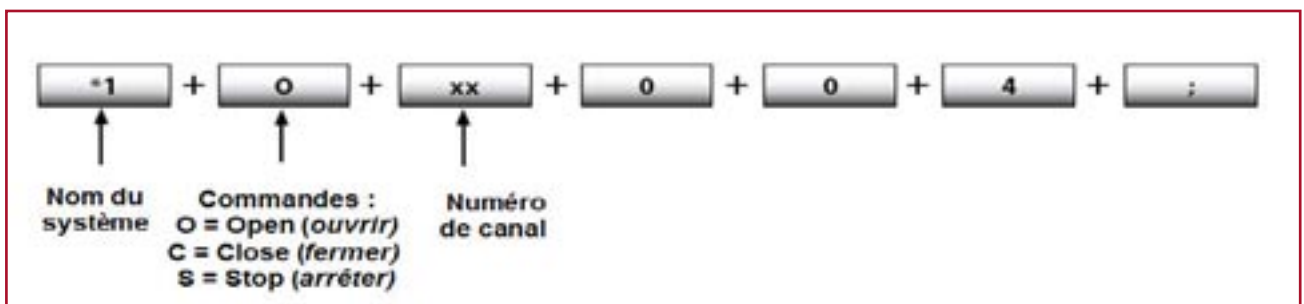


## 9. Confirm Connection

1. Connect a MCS on the SYS1 port of the MCS BRS.



Commands for the MCS are:



2. Type commands **OPEN 1** and **CLOSE 1** (that is to say respectively **\*1o01004;** et **\*1c01004;**) to test the MCS;  
==> A "click" of the relay indicates that command was understood.

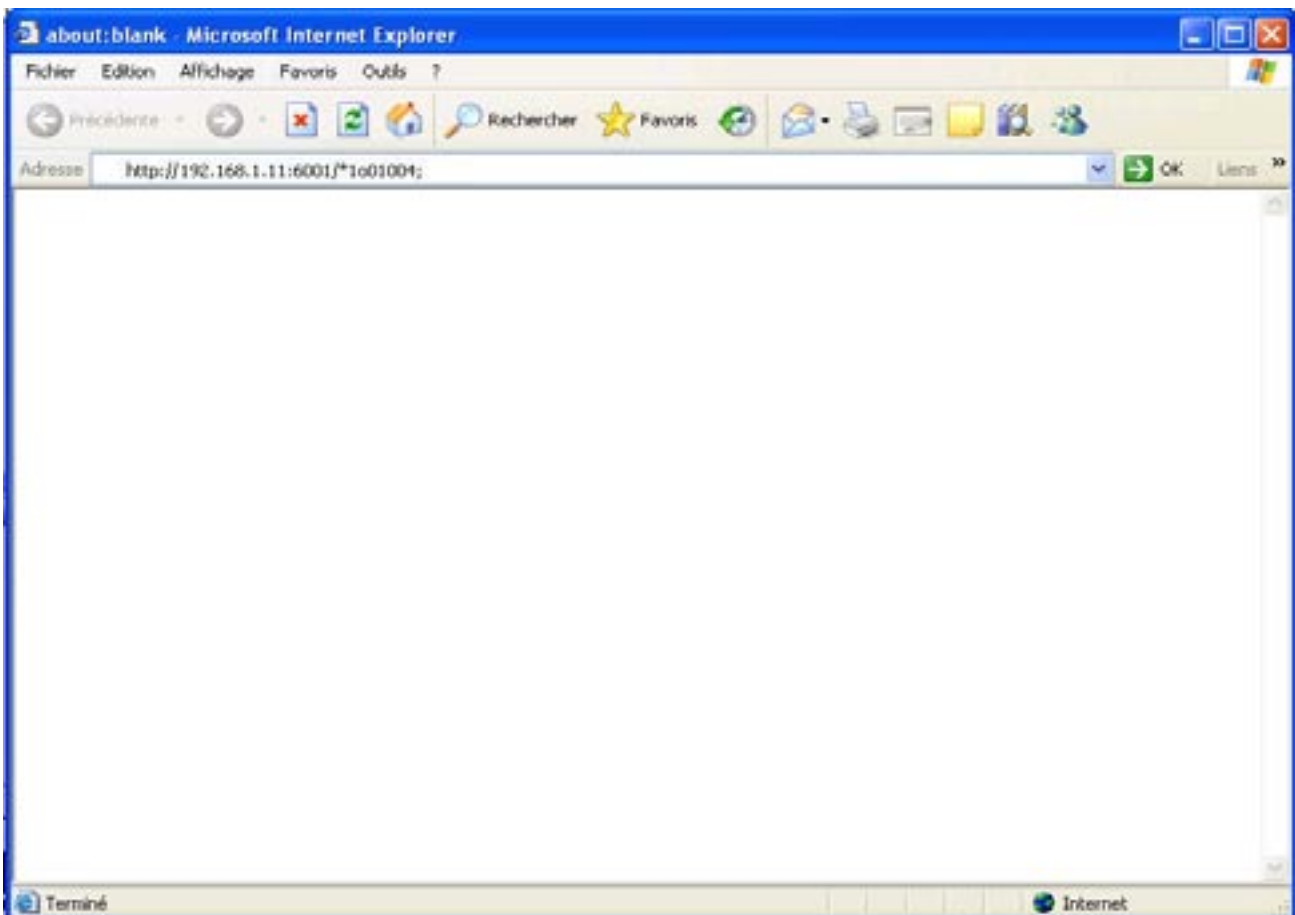
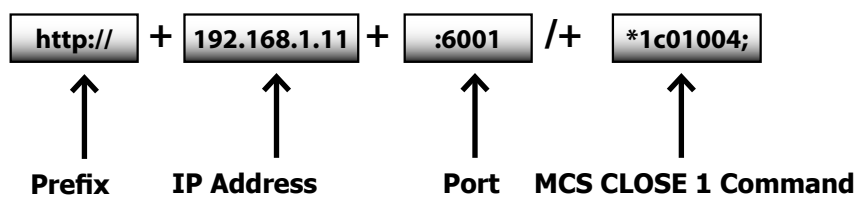
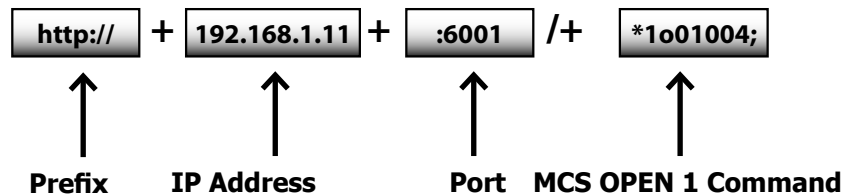


If you need more information about the MCS commands list , consult the installation manual "**Motor Control System MCS-310/MCS-320**".

## 10. Send A Command Via Internet

Type in your browser the IP address + the port name + the command name.

**Example :**



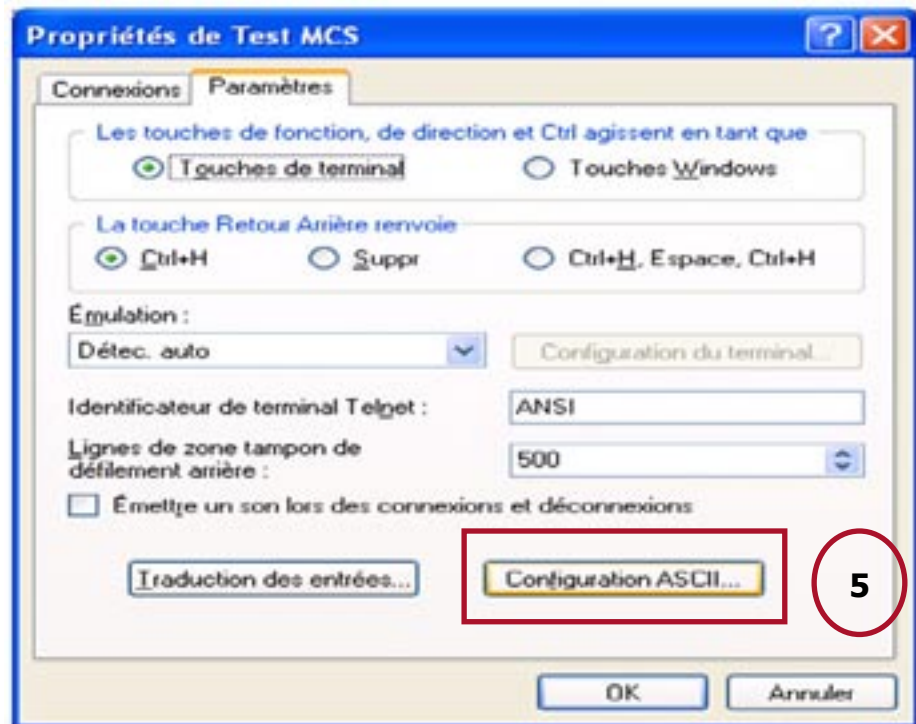
## 11. Send A Command Via HyperTerminal

1. Configure a new connection while being connected to protocol TCP/IP.
2. Type the IP address and the port number.

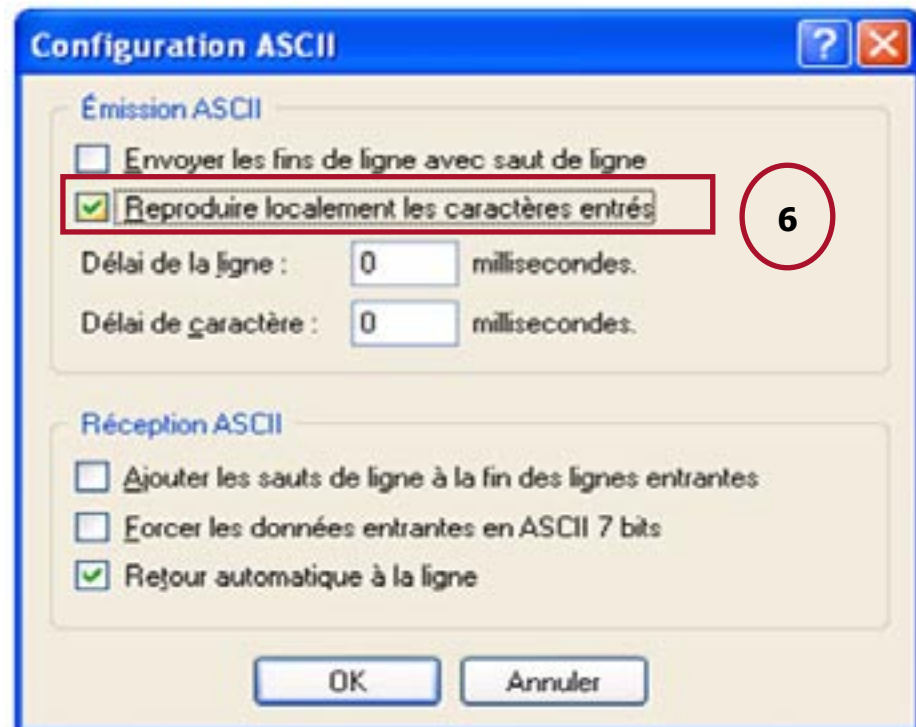


3. The device is well connected: connection is done automatically.
4. Select **File>Preferences** to see commands which are sent.

5. Click on the button **Configuration ASCII** .



6. Select "Reproduce Locally The Typed Data".



7. Type commands as below:

```
*1c01004;
```

8. Command is correct: the MCS BRS returns the **LF** command (line break).

9. Command is sent to the motor: the MCS BRS returns the **CR** command (return to the beginning of the line ).

Cursor starts automatically on the next line.



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