

# HWg-SH2

## MANUAL



## HWg-SH2 connections

### Status LEDs

- Power (green)
- Front door (yellow =locked)
- Rear door (yellow = lock)
- Link & Activity (yellow)

### ETHERNET

10/100 Mbps

### Reset hole

Use paper clip  
Push and hold 10 seconds after  
power up to reset factory default



### POWER inputs

12V DC supply  
Use the supplied power adapter



Front and Rear Swings  
Handles (SH1)

Front and Rear  
Doors contacts

### Lock

Dry contact for RFID reader  
or push button

## Technical specification

- Controls:
  - two swing handles
  - two door dry contacts
  - one lock connector for RFID reader or push button
- Built-in WWW interface for configuring and controlling unit
- Support for HWg-DCD or other central controlling application
- Log file for all events
- Detachable wall mounting bracket

### ETHERNET

Interface	RJ45 (10/100BASE-T) – 10 Mbit or 100 Mbit network compatible
Supported protocols	TCP/IP (HTTP, SNMP)

### CONNECTIVITY

Swing handles	2x SH1 connectors
Door contacts	2x terminal block (dry contact)
Lock input	1x terminal block (dry contact)

### POWER input

Power supply	POWER 12V / 500 mA
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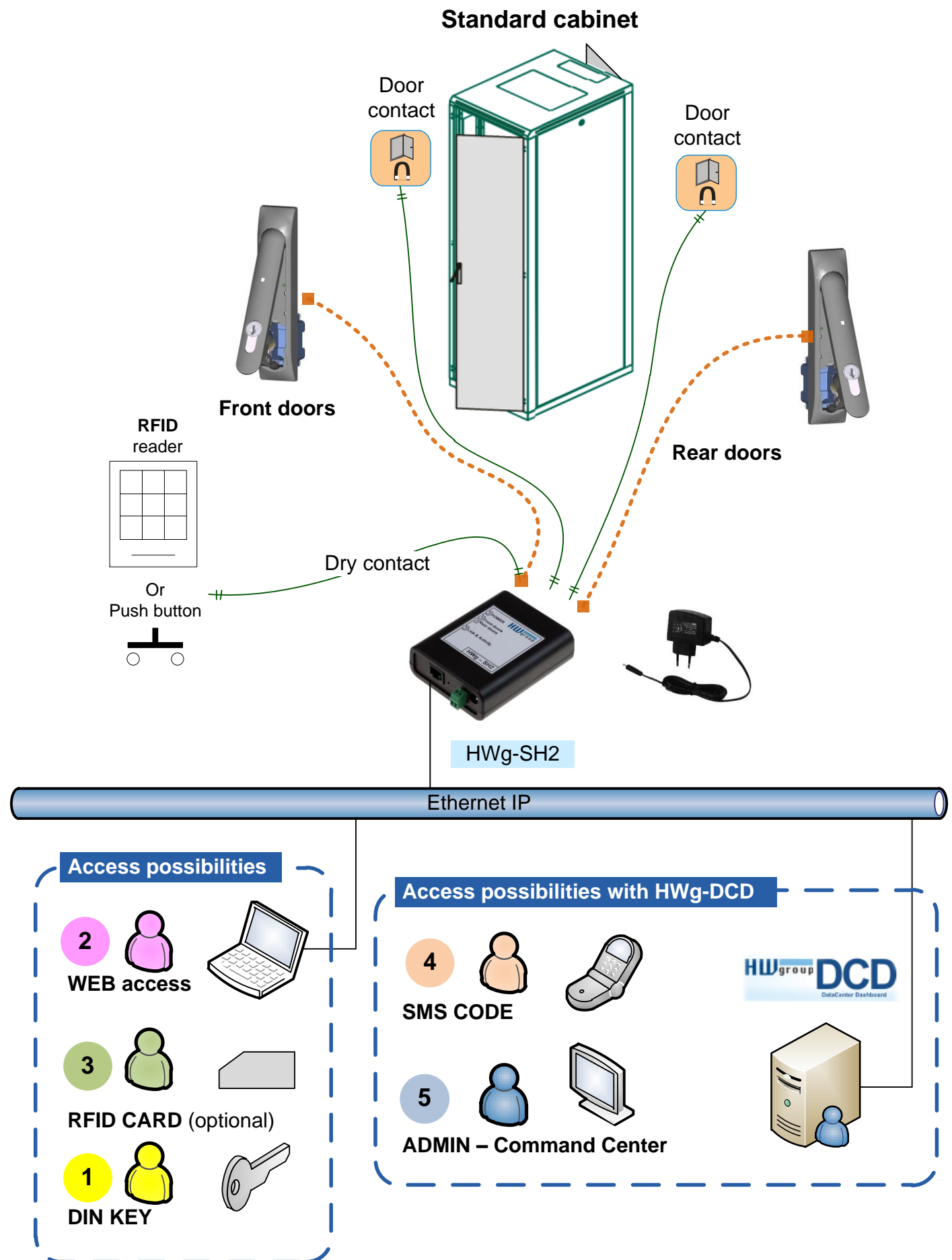
### LED Status indicators

POWER	Green
FRONT DOOR	Yellow = locked
REAR DOOR	Yellow = locked
LINK & ACTIVITY	Yellow - Ethernet connectivity

### Physical parameters

Operating temperature	-10 to 60 °C
Dimensions	98 x 78 x 31 mm

## Possible connections



## First steps

### 1) Connecting the cables

- Connect the unit to the Ethernet (patch cable to a switch, or a cross-over cable to a PC).
- Connect swing handles and door contacts.
- Plug the power adapter in to a power outlet and connect it to the HWg-SH2 power connector.
- The green **Power** LED lights up on the top of cover.
- If the Ethernet connection works properly, the **LINK** (yellow) LED lights up after a short while, and then flashes whenever data transfer takes place (activity indication).
- After power up, the **LINK** LED flashes rapidly to indicate IP address negotiation over DHCP.

### 2) Configuring the IP address – UDP Config

**UDP Config** utility – see root directory of the supplied CD (Windows and Linux versions).

Alternatively download from [www.HW-group.com](http://www.HW-group.com)

Software > UDP Config.

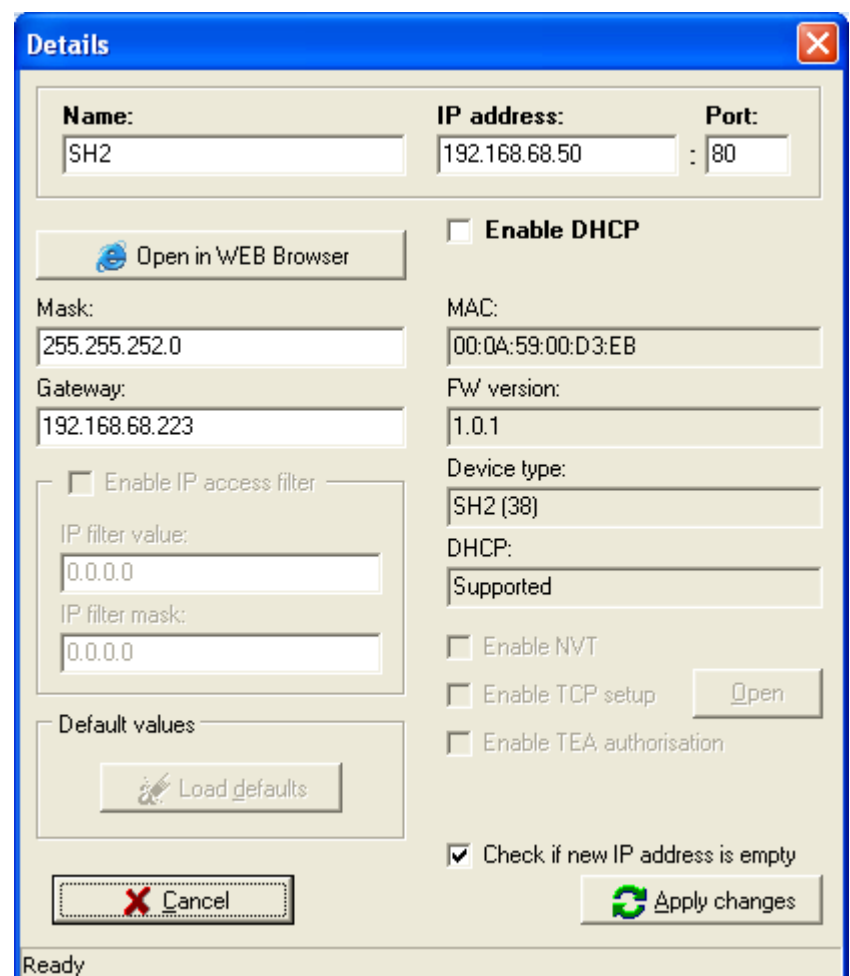
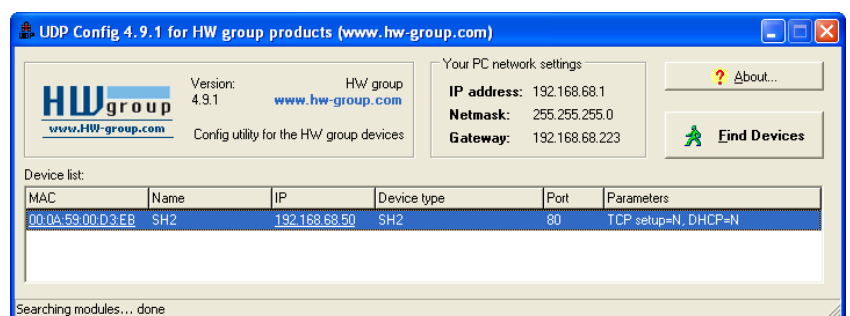
- Click the icon to launch **UDP Config**. The program automatically looks for connected devices.
- To search for devices, click the **Find Devices** icon.

The program looks for devices on your local network. Double-click a MAC address to open a basic device configuration dialog.

#### Configure network parameters

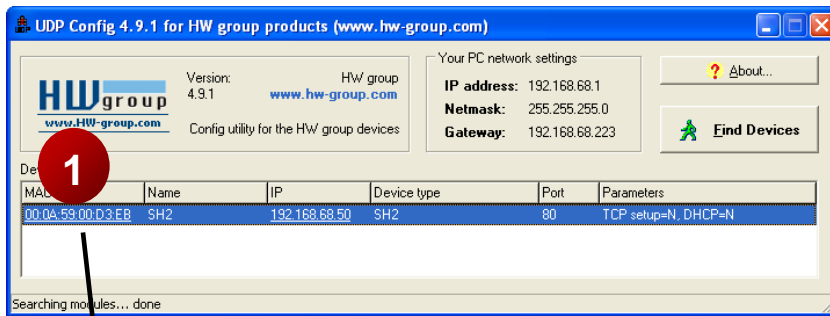
- IP address / HTTP port (80 by default)
- Network mask
- Gateway IP address for your network
- Device name (optional)

Click the **Apply Changes** button to save the settings.

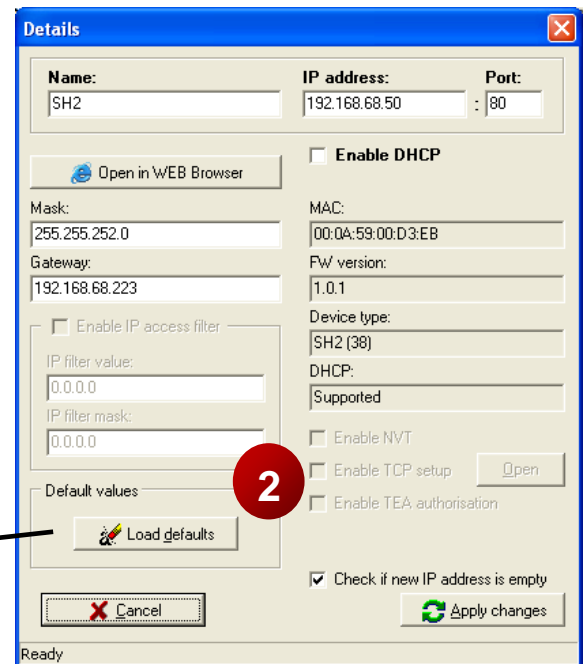


## First steps

### Restoring software factory defaults



In **UDP Config** click a device **MAC** address within **60 seconds** after powering up the unit



Click button **Load defaults** to restore factory defaults.  
If button is grayed still, close Details and press **Find Devices** again.

### Restoring hardware factory defaults

#### Reset hole

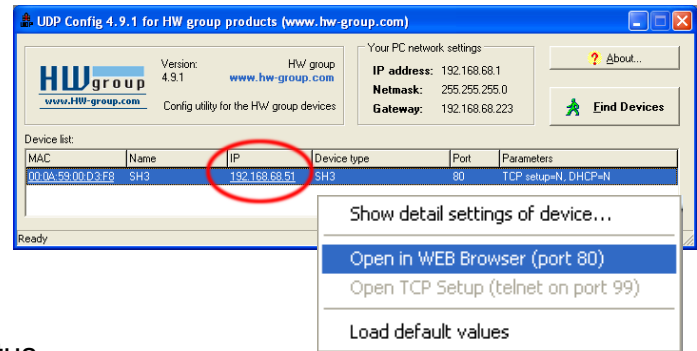
Use paper clip or similar tool  
Push and hold 10 seconds after power up to reset factory default



## First steps

### 3) WWW interface of the device

- To open the WWW interface of the device:
  - Enter the IP address into a web browser
  - Click the underlined IP address in UDP Config
- The WWW page displays current door status.
- Home page is refreshed periodically, no manual refresh is required.



IP address of device

Device name and current date/time optionally synchronized by NTP server

Setting toolbar

Buttons to lock and unlock door

Status rows for the handles and doors

Customized text and link for service purpose

Current state of handle and door

Base Information				
Device Name	SH2			
Time	01:02:35			
Date	01.01.1970			
Ethernet	100 full speed			

Door Status				
Status	Name	Status	Action	
	Door1	Locked	Open	Close

Log				
01/01/1970	01:00:25	Door1	Locked	WEB
01/01/1970	01:00:21	Door1	Unlocked	WEB
01/01/1970	01:00:19	Door1	Locked	WEB
01/01/1970	01:00:15	Door1	Unlocked	WEB

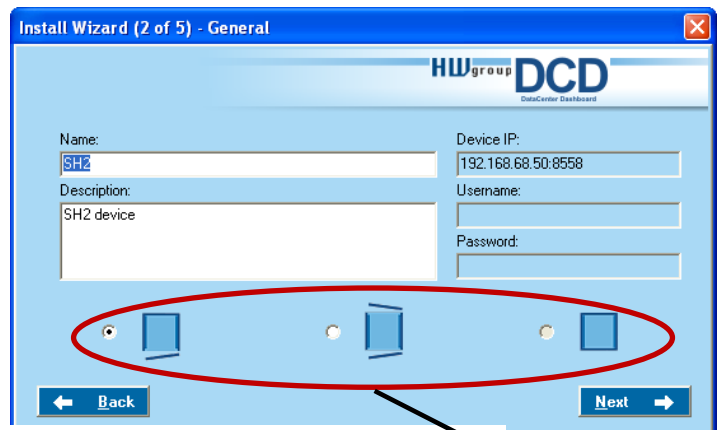
SH2:For more information try [www.hw-group.com](http://www.hw-group.com)



## First steps

### 5) Add cabinet to HWg-DCD software

- Run HWg-DCD software
- Use menu **Cabinet > Add new cabinet**, or press key Ins.
- Press **Next**, select desired device from list and press Next again. You may secure your communication optionally.
- Enter **Name** of cabinet.
- Set door contacts default states.
- Set behavior of Lock input.
- Confirm settings and press Finish.



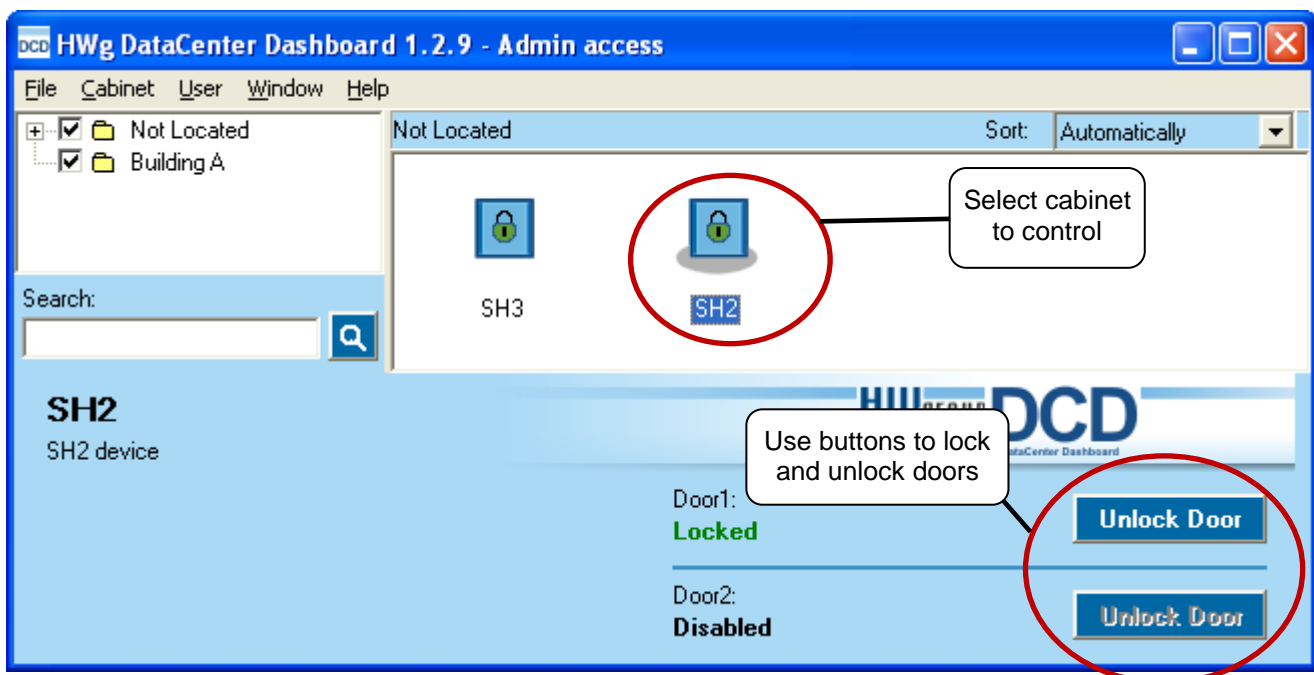
#### Door Setup

Select number of controlled doors

Front Door		
Name	Value	Description
Enable	<input checked="" type="checkbox"/>	Handle 1 Enable/Disable
Name	Door1	Door Name
Autolock Time	30	
Door Contact	Disable	
Open from HWg-DCD	<input checked="" type="checkbox"/>	

Door must be enabled to be controlled via HWg-DCD. See page **Door Setup** in **Product configuration**



### 6) Control your locks over HWg-DCD software





# Product configuration

## General setup

[Home](#) | [General Setup](#) | [Time](#) | [Door Setup](#) | [HWg-DCD](#)

## General Setup

**Device name**  
 Identify the device on home page and HWg-DCD software

Base		
Name	Value	Description
Device Name	SH2	0 to 16 characters
WWW Info Text	SH2:For more information try <a href="http://www.hw-group.com">www.hw-group.com</a>	

**User-defined footer**  
 For example, administrator's contact details  
 See page bottom

**Standard network configuration**

Network		
Name	Value	Description
DHCP	<input type="checkbox"/>	DHCP Enable/Disable
IP Address	192.168.68.50	A.B.C.D
Network Mask	255.255.252.0	A.B.C.D
Gateway	192.168.68.223	A.B.C.D
DNS Primary	192.168.1.253	A.B.C.D
DNS Secondary		A.B.C.D
HTTP Port	80	Default 80

**Username and Password to door access only**



Security: Keys Management		
Name	Value	Description
Username		Username and password for keys management [0 to 16 characters]
Password		

**Username and Password to access full device configuration**

Security: Device Admin		
Name	Value	Description
Username		Admin username/password for device configuration changes [0 to 16 characters]
Password		

SH2:For more information try [www.hw-group.com](http://www.hw-group.com)

## Time

[Home](#) | [General Setup](#) | [Time](#) | [Door Setup](#) | [HWg-DCD](#) | [System](#)

### Time

If time synchronization failed, check your DNS server setting, or specify IP address as **SNTP Server** instead of domain name.

SNTP Setup		
Name	Value	Description
SNTP Server	<input type="text" value="time.nist.gov"/>	IP Address or DNS Name
Time Zone	<input type="text" value="+1"/>	Number -12 ... +13
Summertime	<input checked="" type="checkbox"/>	last Sun Mar 2:00 - last Sun Oct 2:00
Interval	<input type="text" value="1h"/> <span style="border: 1px solid #4f799d; padding: 0 5px;">v</span>	Sync period: Off/1h/24h
<input type="button" value="Save"/>		

**SNTP synchronize**

Press to synchronize date/time immediately.

Time Setup		
Name	Value	Description
Time	<input type="text" value="01"/> : <input type="text" value="41"/> : <input type="text" value="07"/>	hh:mm
Date	<input type="text" value="01"/> . <input type="text" value="01"/> . <input type="text" value="1970"/>	DD.MM.YYYY
<input type="button" value="Save"/>		

SH2:For more information try [www.hw-group.com](http://www.hw-group.com)

## Door Setup



### Door Setup

Front Door		
Name	Value	Description
Enable	<input checked="" type="checkbox"/>	Handle 1 Enable/Disable
Name	<input type="text" value="Door1"/>	Door Name
Autolock Time	<input type="text" value="30"/>	Time in Sec, 0 = infinit
Door Contact	<input type="text" value="Disable"/>	Door Contact on connector C1
Open from HWg-DCD	<input checked="" type="checkbox"/>	Enable open from HWg-DCD

Rear Door		
Name	Value	Description
Enable	<input type="checkbox"/>	Handle 2 Enable/Disable
Name	<input type="text" value="Door2"/>	Door Name
Autolock Time	<input type="text" value="30"/>	Time in Sec, 0 = time infinit
Door Contact	<input type="text" value="Disable"/>	Door Contact on connector C2
Open from HWg-DCD	<input checked="" type="checkbox"/>	Enable open from HWg-DCD

RFID Card Reader		
Name	Value	Description
Activation	<input type="text" value="Open Both Doors"/>	RFID Card Reader Target
Function	<input type="text" value="Normally Open"/>	RFID Card Reader on connector R1

Default state for **Lock** input.

Save

Permissions for **Lock** input. You may control **Lock** input via RFID reader or push button

SH2:For more information try [www.hw-group.com](http://www.hw-group.com)

## HWg-DCD

Download last version of HWg-DCD software from <http://www.hw-group.com>



Connections parameters to PC where HWg-DCD software is installed

### HWg-DCD

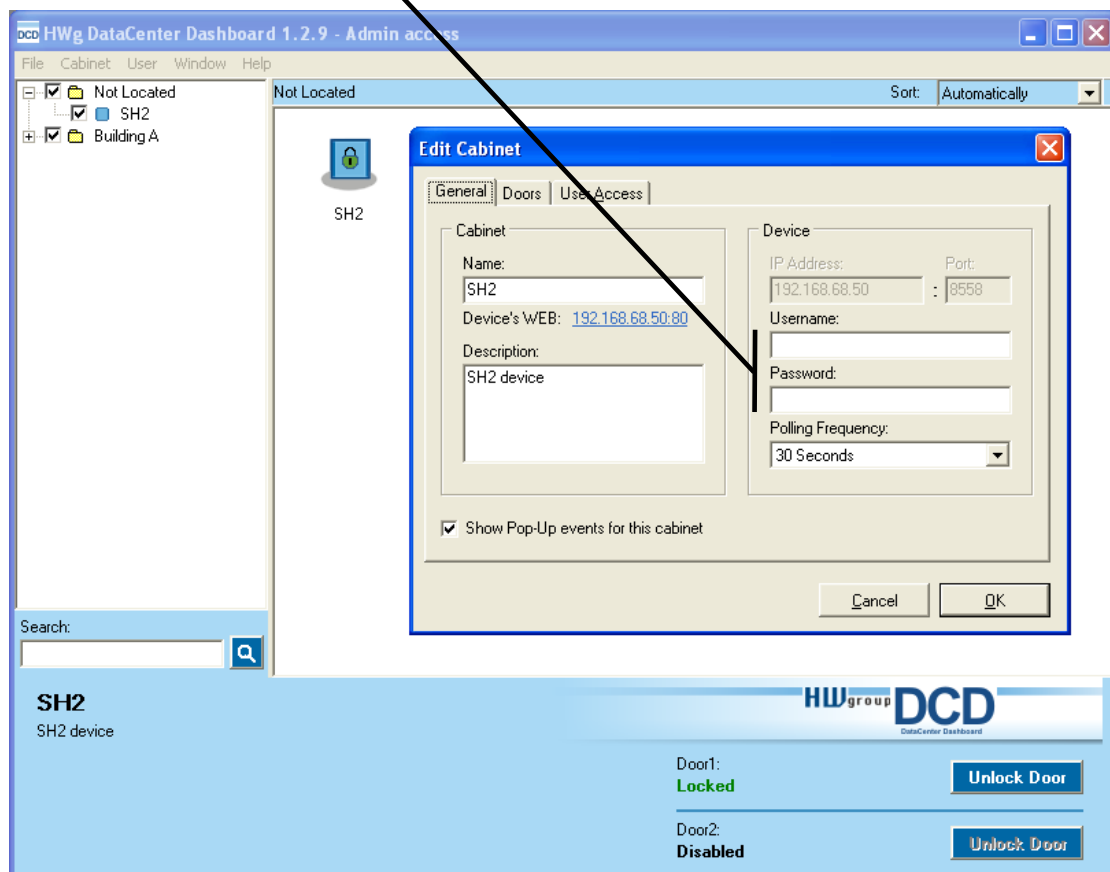
Must be enabled to be device detected in HWg-DCD software

HWg-DCD		
Name	Value	Description
HWg-DCD Enable	<input checked="" type="checkbox"/>	Enable / Disable
Server Address	192.168.68.1	HWg-DCD Server IP Address
Server IP Port	8558	Default 23
Local IP Port	8558	Default 23
DCD Username		[0 to 16 characters]
DCD Password		[0 to 16 characters]
Save		

Use username and password used for specified cabinet in HWg-DCD

Check in HWg-DCD software  
File > Global settings > HWg Protocol

SH2: For more information try [www.hw-group.com](http://www.hw-group.com)



## System



### System

Download	
Description	File
Backup configuration	<a href="#">SH2_setup.bin</a>

System	
Name	Value
Version	1.0.1
Compile time	Nov 23 2009, 16:34:47
Build	1265
Vendor ID	0
UpTime	1:02
Demo Mode	<a href="#">Demo Mode Enable</a>
Upload file	<input type="text"/> <input type="button" value="Procházet..."/> <input type="button" value="Upload"/>

Factory Default	System Restart
<input type="button" value="Default"/>	<input type="button" value="Restart"/>

SH2:For more information try [www.hw-group.com](http://www.hw-group.com)

### Lock your settings

**Demo mode** allows you protect all device settings from changes. In this mode all visitors can freely browse and see all pages, but no configuration change is accepted. You can easily put device to public internet and nobody will change the configuration.