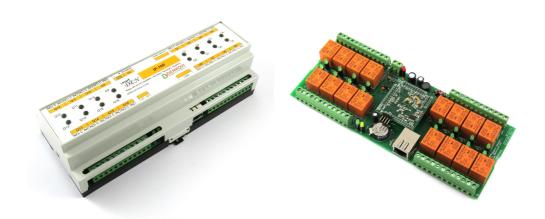


SmartDEN IP-16R

Web enabled 16 Relay Module

User Manual Date: 27 Aug 2014





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1. Features

SmartDEN IP-16R is a LAN relay module with 16 SPDT relays for remote control with integrated web server for set-up, snmp-v1 and http/xml support for embedding in other systems. The built-in real time clock allows to organize schedule stand-alone work without connection to computer.

- 10 Mb Ethernet interface with Link/Activity Led;
- Auto-MDIX;
- 16 SPDT relays (with NO and NC contacts);
- · Led for each relay;
- Real Time Clock (RTC) for schedule (calendar) stand-alone work;
- Web server with secure login authorization;
- SNMPv1 for configuration/monitoring (snmpget and snmpset);
- Secure HTTP/XML API protocol support for read/write relays status;
- Supported protocols: ARP, IP, ICMP (ping), DHCP, DNS;
- Access protection (by IP and MAC address);
- Option for relays states saving and loading on reset.



2. Application examples

- Remote control of electrical appliances
- Industrial automation
- Home automation

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3. Technical parameters

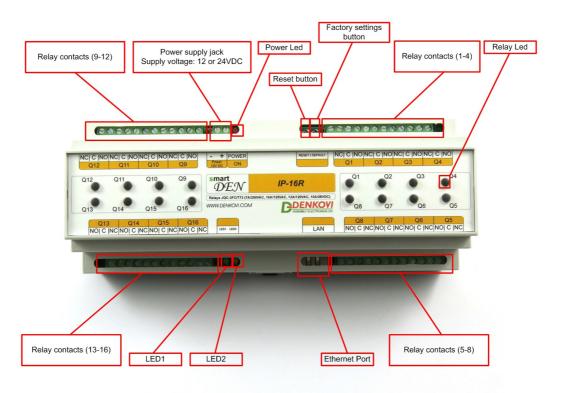
Table 1. Technical parameters

Parameter	Value
Box size, mm	210 x 85 x 58
PCB size, mm	203 x 82
Box weight, g	420
PCB weight, g	285
Power supply voltage,VDC	12 or 24 (depends on the model) ±2
Maximum current consumption at	600
12VDC (when all relays are ON), mA	
Maximum current consumption at 24VDC	400
(when all relays are ON), mA	
Operating temperature, °C	0 to 70
Relays JQC-3FC/T73 maximum	(7A / 250VAC, 10A / 125VAC, 12A /
switchable current / voltage	120VAC, 10A / 28VDC)
Relays RAS-12-15 maximum switchable	(10A / 250VAC, 15A / 120VAC, 15A /
current / voltage	24VDC)
Relays RAS-24-15 maximum switchable	(10A / 250VAC, 15A / 120VAC, 15A /
current / voltage	24VDC)



4. Connectors, ports and led indicators

Bellow is shown a picture with the device connectors, ports and led indicators.



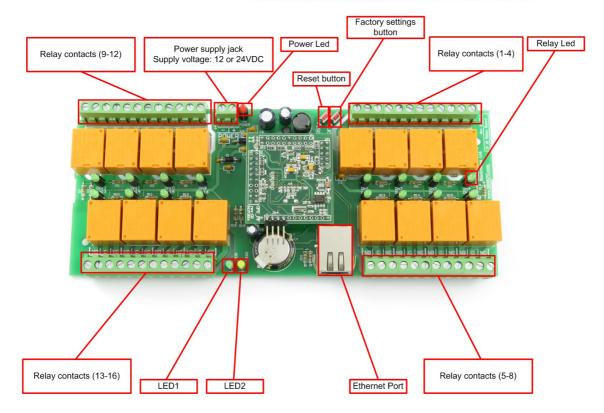


Figure 1. Device overview

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5. Installation

- This device must be installed by qualified personnel;
- This device must not be installed directly outdoors;
- Installation consists of mounting the device, connecting to an IP network, connecting the relays, providing power and configuring via a web browser.

5.1. Box mounting



Figure 2. Mounting the device to DIN rail

SmartDen IP-16R can be mounted to a standard (35mm by 7.55mm) DIN rail. Attach the module to the DIN rail by hooking the hook on the back of the enclosure to the DIN rail and then snap the bottom hook into place.

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5.2. Power supply

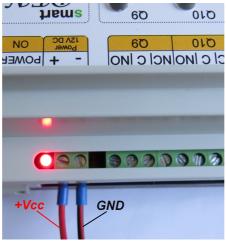


Figure 3. SmartDen IP-16R power supply

Depending on the selected model during purchase the power supply source for **SmartDen IP-16R** must be with voltage either **12VDC** or **24VDC** stabilized and filtered. After power on, the power led must be on and **Led1 indicator** must start blinking in 5 seconds which means the controller is running normally.



Figure 4. Connecting a LAN cable

- Please keep the polarity and supply voltage range!
- SmartDen IP-16R does not accept AC supply voltage. It is highly recommended to check the power supply source parameters before supply the module.
- The power supply equipment shall be resistant to short circuit and overload in secondary circuit.
- When in use, do not place the equipment so that it is difficult to disconnect the device from the power supply.



5.3. Relay connection

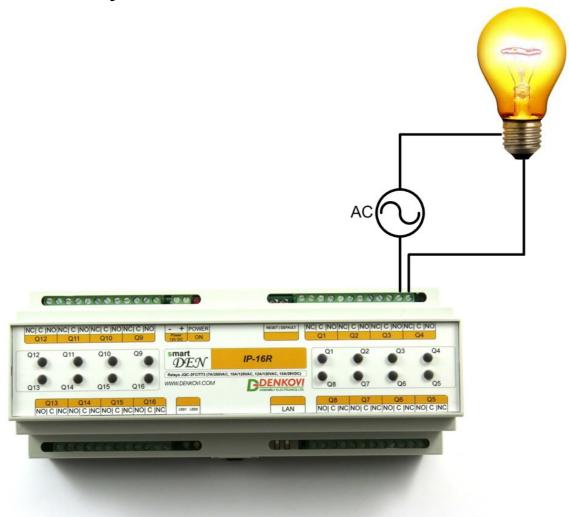


Figure 5. Connecting a lamp to relay

SmartDen IP-16R has 16 SPDT relays with parameters specified in the technical parameters section. Every relay channel has normally open (NO) and normally closed (NC) contacts connected directly to the terminals.

If you are connecting inductive loads to the relays an extra measures must be taken in order to ensure the proper work of the device. For more information please refer to this link:

http://denkovi.com/controlling-inductive-devices



5.4. Network connection

SmartDen IP-16R supports AUTO-MDIX so either "crossover" or "straight-through" network cable can be used.



Figure 6. Connecting **SmartDen IP-16R** to a computer directly. This is the recommend initial connection.



Figure 7. Connecting SmartDen IP-16R to a wireless router.



5.5. Communication setup

SmartDen IP-16R is shipped with the following default parameters:

IP address: 192.168.1.100Subnet mask: 255.255.255.0

Gateway: 192.168.1.1Web password: admin

Initially it is recommended to connect the module directly to the computer.

Next you have to change your PC's IP address.



You can google how to change you computer IP settings or just visit this web page: http://www.howtochangeipaddress.com/changeip.php

For Windows 7 OS for example you can do that in the following way:

Navigate to Control Panel -> Network and Internet -> View network and status tasks -> Change adapter settings

Then just select the local area connection with right click and select *Properties*:

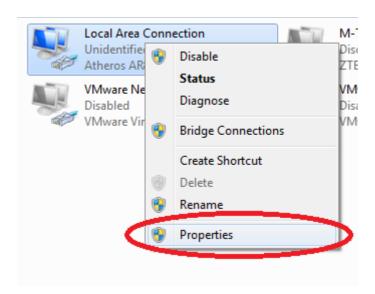


Figure 8. LAN card properties



The next step is to enter into IPv4 properties.

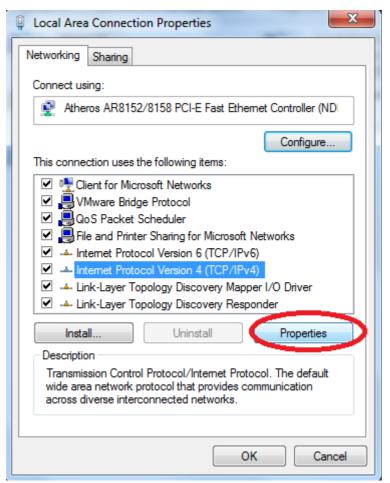


Figure 9. Enter in IPv4 properties section

Set the IP address of your PC to be in the <u>same network</u>.

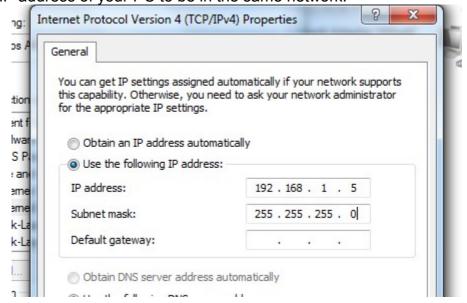


Figure 10. Set the IP address

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Finally, in order to access **SmartDEN IP-16R** just type in your browser 192.168.1.100

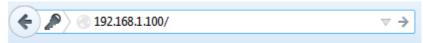


Figure 11. Open the device via browser

If the network settings are O'K, the log-in page should appear:



Logged out

Figure 12. Login page

SmartDEN IP-16R modules connected locally can be easily scanned and found via the tool **Denkovi Finder** as well.

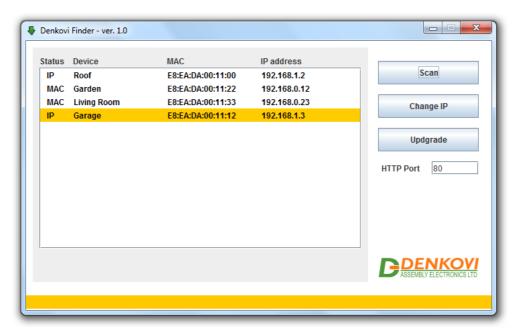


Figure 13. Denkovi Finder

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6. Default Settings

6.1. Table with default settings

The **SmartDen IP-16R** module is shipped with default (factory) settings shown in Table 2. The default settings can be reloaded, if necessary (see **point 6.2**).

Table 2. Default settings

F =	Table 2. Delauit Settii				
Settings group	Parameter	Value			
	(according Web pages)				
General Settings	Device Name	SMARTDEN-IP-16R			
	Save Outputs	No			
	Password	admin			
Network Settings	DHCP	Disabled			
	IP Address	192.168.1.100			
	Gateway	192.168.1.1			
	Subnet Mask	255.255.255.0			
	Primary DNS	192.168.1.1			
	Secondary DNS	0.0.0.0			
HTTP & XML	HTTP Port	80			
Access	Access IP Address	192.168.1.0			
	Access Mask	0.0.0.0			
	Access MAC Address	00:00:00:00:00			
	Session Timeout, min	3			
	Enable XML Access	Yes			
	Encrypt XML Password	No			
	Multiple XML Access	Yes			
SNMP Agent	Enable SNMP	Yes			
	SNMP Port	161			
	Read-only Community1	public			
	Read-only Community2	read			
	Read-write Community1	private			
	Read-write Community2	write			
1		1			



6.2. Steps for loading default settings

When necessary, the factory (default settings) may be applied so the module parameters will be returned back as those in **point 6.1** from the current document.

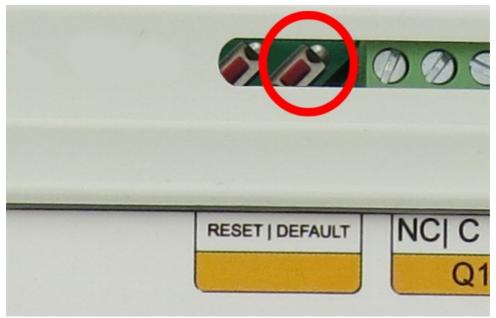


Figure 14. Loading the default settings

- 1. Turn off the power supply of the device;
- 2. Press and hold the default button;
- 3. Turn on the power supply of the device;
- 4. Wait for until both led indicators (led1 and led2) become ON (approximately 10 sec):
- 5. Release the default button;
- 6. The module is configured with default settings.



7. Web access

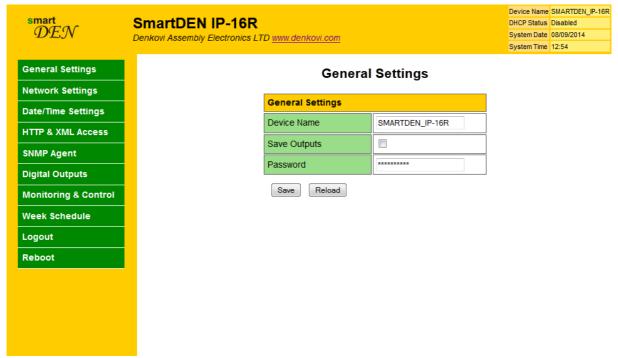


Figure 15. Web access

To access the setup pages, run a web browser (Internet Explorer, Mozilla Firefox or similar), and enter the **SmartDEN IP-16R** IP address , for example: http://192.168.1.100

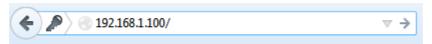


Figure 16. Open via browser

Note: You will need to have JavaScript enabled in your browser.



7.1. Login



Logged out

Figure 17. Login page

Enter the password and click "Login" button. This will bring you to the **SmartDEN IP-16R** main configuration page which contains details for the current firmware version and build date and provides buttons and links to obtain further details.

Note: The default password is admin (passwords are case sensitive).

Note: When the password is entered, it is transmitted across the network in encrypted form, so eavesdropping on the data transmission will not reveal the password.

Note: In order to prevent setup/control conflicts, at any given moment, only one user can be logged in.

Note: If there is no data traffic between the Web-browser and the **SmartDEN IP-16R** for time, specified by **Session Timeout** parameter, the session "times out" and a new login is required.

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7.2. **Menu**

The main menu consists of the following items, located in the left window frame:



Figure 18. Navigation menu

7.3. General Settings

General Settings

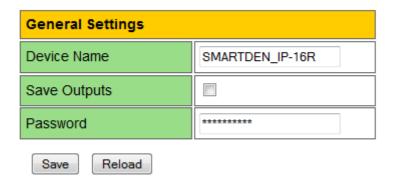


Figure 19. General settings

• **Device Name:** The name of the module (max 15 symbols). Every module can have different name in your network so they can be distinguished;



- Save Outputs: When checked, each time the relays state is changed, it will be saved in non-volatile memory (EEPROM), so after reboot/restart it will be restored;
 - This option should be used with care in dynamic systems because of restriction in maximum write cycles of the EEPROM (usually 100 000 write/erase cycles).
- **Password:** The password used for logging into the web admin and XML operation (max. 10 chars);
 - When typed. the password in this screen is not hidden. Only in this case, when the password is being changed, it is transmitted across the network "in the open". Therefore, set passwords in a secure environment where you can make sure that no one is "eavesdropping". Subsequent transmissions of the password to "login" onto the device are encrypted and "safe".
- Save button: Once you have changed the settings as required, click this button.

7.4. Network settings

Network Configuration

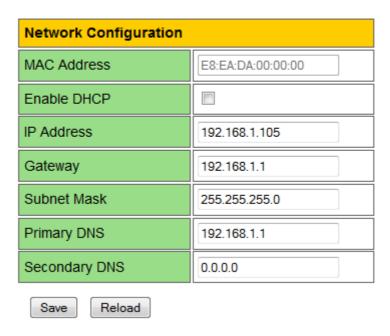


Figure 20. Network settings

This menu lets you configure the network settings of **SmartDEN IP-16R** relay module:

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- **Enable DHCP:** This option allows DHCP to be enabled or disabled. If DHCP is set to Enabled, the Network page must be saved and **SmartDEN IP-16R** must be rebooted before obtaining an IP address;
- **IP address:** This is the IP address of the **SmartDEN IP-16R**. It needs to be manually assigned only if DHCP is disabled. With DHCP enabled, this field displays the currently assigned address;
- **Gateway:** This specifies the IP address of the gateway router. It is used for accessing public time servers for automatic time synchronization;
- **Subnet Mask:** This is the subnet mask for the network on which the **SmartDEN IP-16R** is installed;
- Primary DNS: Primary DNS (Domain Name Service) address;
- Secondary DNS: Secondary DNS address;
- Save button: Once you have changed the settings as required, click this button.
 - You have to reboot the device for these settings to apply.



7.5. Date and Time Settings

Date/Time Settings

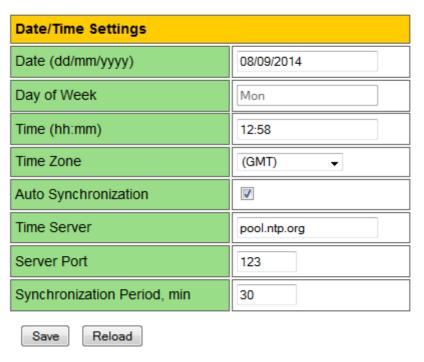


Figure 21. Date/Time settings

This page lets you configure the following parameters related with the real time clock built-in the module:

- Date (dd/mm/yyyy): Enter the current date here in specified format;
- **Time (hh:mm):** Enter the current time here in 24-hour format;
- **Time Zone:** Select the time zone for your geographic location.
- Auto Synchronization: This option enables or disables automatic synchronization with the SNTP (Simple Network Time Protocol) server with period specified by Synchronization Period;
- **Time Sever:** This is the SNTP server, used for synchronizing the time automatically;
- **Server Port:** SNTP server port;
- **Synchronization Period, min:** This option sets the period in which automatic synchronization will take place, if enabled;
- **Save button:** Once you have changed the settings as needed, click **"Save"**. These settings apply immediately and do not require a reboot.

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7.6. HTTP & XML Access

HTTP & XML Access

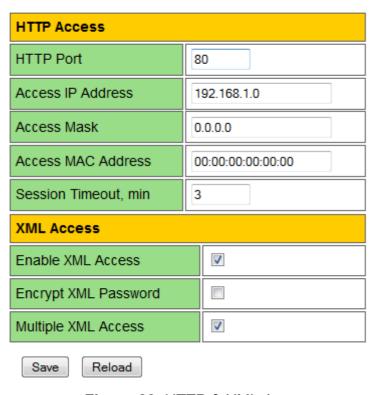


Figure 22. HTTP & XML Access

These settings let you configure the HTTP and XML access parameters of SmartDEN IP-16R:

- **HTTP Port:** Port that the Web server listens for HTTP requests (default port is 80). You have to reboot the device for a new port setting to apply;
- Access IP Address/Access Mask: These fields can be used to restrict the HTTP/XML access by specifying the IP address and subnet mask of the HTTP client:
- Access MAC Address: This field can be used to restrict the HTTP/XML access by specifying the MAC address of the HTTP client;
- **Session Timeout, min:** Specifies the timeout period for HTTP and XML sessions in minutes;
- **Enable XML Access:** This option enables or disables XML access to the SmartDEN IP-16R;
- **Encrypt XML Password:** When XML access is enabled, this option adds additional security level by encrypting the login password;
- **Multiple XML Access:** This option enables simultaneous access from several HTTP clients;
- Save button: Once you have changed the settings as required, click this button.

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<u>Note:</u> When Encrypt XML Password mode is enabled, the Multiple XML Access option is not taken into account and, at any given moment, only one user can be logged-in.

<u>Note:</u> When **Multiple XML Access** mode is enabled, any XML request will always reset the current HTTP session.

Note: When **Multiple XML Access** mode is disabled, whether **Encrypt XML Password** is enabled or not, it is possible to access the module via XML only after login for the specified session timeout.

- You have to reboot the device for these settings to apply.
- It is highly recommended to log out from the web server after finishing the parameters setup.
- If you don't want to restrict the HTTP/XML access by IP address, set the **Access Mask** to 0.0.0.0.
- If you don't want to restrict the HTTP/XML access by MAC address, set the MAC **Address** to 00:00:00:00:00.
- Setting the **Access Mask** to 255.255.255 allows the HTTP/XML access only from the exactly specified **Access IP Address**.
- You can allow the HTTP/XML access to a range of IP addresses by setting an appropriate value for **Access Mask**. For example setting the **Access IP Address** to 192.168.1.0 and **Access Mask** to 255.255.255.0 allows the access from IP addresses in range from 192.168.1.0 to 192.168.1.255.

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7.7. SNMP Agent

SNMP Agent Configuration



Figure 23. SNMP settings

These settings let you configure the SNMPv1 (Simple Network Management Protocol Version 1) access to the **SmartDEN IP-16R**:

- Enable SNMP: This option enables or disables SNMP access to the SmartDEN IP-16R;
- **SNMP Port:** UDP port number the SNMP agent receives requests on (default port is 161);
- **Read-only Community1/2:** Community string for client's authentication, used in read operations;
- **Read-write Community1/2:** Community string for client's authentication, used in read/write operations.
- **Save button:** Once you have changed the settings as required, click this button.
 - You have to reboot the device for these settings to apply.



7.8. Relays

Relays

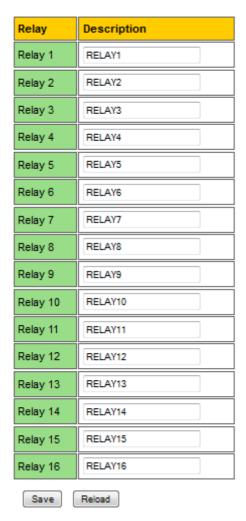


Figure 24. Relays names

This page configures the relays descriptions:

• **Description:** Relay identification string (max 7 chars).

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7.9. Monitoring and control

Monitoring & Control

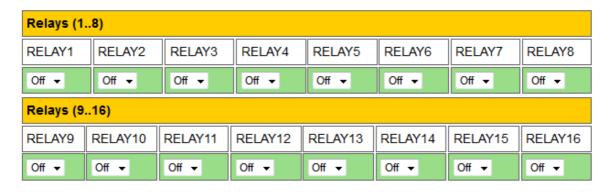


Figure 25. Monitoring and control

This page provides monitoring and control of the **SmartDEN IP-16R** relays. From here you can control the relays.



7.10.Week Schedule

Week Schedule

Existing Items (Start Date: 03/09/2014)									
No	Outputs	State	Hour	WeekDays					
1	14	Off	00:00	Sun					
2	3,11	Off	00:00	Sun					
Delete S	elected Update Start Date								

Figure 26. Week schedule

This page configures the **Week Schedule** table for switching **Relays** ON or OFF at specific times. You can add up to 30 items to the list. The top table of this page allows you to define a new item, while the bottom table shows the already defined list:

- Outputs: Select a group of relays that should be switched;
- **State:** Defines the state (ON/OFF) for the selected group of relays;
- **Hour:** Time the group of relays will be switched at;
- **WeekDays:** Select the days the defined switching should take place;
- Start Date (dd/mm/yyyy): The start date for the Week Schedule table.

Once you have defined a new item, click "**Add**". This item will be added as a new row in a **Week Schedule** table.



This feature allows you to turn on/off specific relays upon certain date and time or weekday without the need of LAN connection between the computer and the module.



To delete an item, select it in **Existing Items** table and click on "**Delete Selected**" button.



To set a new start date, click on "Update Start Date" button.



The module has back-up supply source for the RTC in order to keep the



current date/time for several days during power off.

7.11.Logout



Figure 27. Log off

7.12.Reboot



Figure 28. Reboot



8. HTTP/XML access

This operation mode allows custom applications to control the SmartDEN IP-16R without using a Web-browser. The custom application acts as a HTTP client, sending HTTP GET requests to the SmartDEN IP-16R.

To receive the current state of the **SmartDEN IP-16R**, the application requests the page *current state.xml*, for example:

http://192.168.1.100/current_state.xml

The custom application can also control the **SmartDEN IP-16R** by sending parameters (name/value pairs) with the HTTP request, for example:

http://192.168.1.100/current_state.xml?Relay=1&Relay2=0&Relay3=1

The XML login process differs depending on the selected Encrypt XML Password option.

8.1. Login (Encrypted Password)

In this mode a two-step login sequence is provided as a protection against unauthorized access. The first time the custom application requests the page *current_state.xml*, a random login key is issued in the reply. Next the custom application uses this key to encrypt the password. The encrypted password is sent as a parameter with the next request to the page *current_state.xml*.

Bellow is an example of login process:

```
Step 1:
```

Request

http://192.168.1.100/current_state.xml

Reply (login required):

<CurrentState>

<LoginKey>65156</LoginKey>

</CurrentState>

Step 2:

Request (password is sent as a parameter)

http://192.168.1.100/current_state.xml?

pw=28237099263eabfd88626124a822c64c

Reply (password is O'K, login accepted):

<CurrentState>

<Relav1>0</Relav1>

..

</CurrentState>





Password encryption algorithm to be implemented in custom application is available upon request.

8.2. Login (Non-Encrypted Password)

In this mode the password is passed as non-encrypted parameter with the request:

http://192.168.1.100/current_state.xml?pw=admin

Getting the <LoginKey> in the answer in this mode means only that the provided password is wrong or the login session has been expired.



If there is no data traffic between the custom application and the SmartDEN IP-16R for time, specified by Session Timeout parameter, the session "times out" and a new login is required.



8.3. Getting the current state

After a login the custom application can obtain the **SmartDEN IP-16R** current state by a request to the page *current_state.xml*:

http://192.168.1.100/current_state.xml

The reply contains page in XML format:

```
-<CurrentState>
  -<Relayl>
      <Name>RELAY1</Name>
      <State>0</State>
   </Relay1>
  -<Relay2>
      <Name>RELAY2</Name>
      <State>0</State>
   </Relay2>
  + <Relay3></Relay3>
  + < Relay 4></Relay 4>
  + <Relay5></Relay5>
  + <Relay6></Relay6>
  + < Relay 7 > < / Relay 7 >
  + < Relay 8></Relay 8>
  + <Relay9></Relay9>
  + <Relay10></Relay10>
  + < Relay 11> < / Relay 11>
  + <Relay12></Relay12>
  + < Relay 13></ Relay 13>
  + <Relay14></Relay14>
  + <Relay15></Relay15>
  + < Relay 16></ Relay 16>
 </CurrentState>
```



8.4. Multiple XML Access

In this mode the password should be passed as non-encrypted parameter with each request:

http://192.168.1.100/current_state.xml?pw=admin&Relay1=1



Multiple XML Access is not allowed when Encrypt XML Password option is enabled.

8.5. Parameters

After a login the custom application can also control the SmartDEN IP-16R by sending parameters (name/value pairs) with the HTTP request.

Valid parameters and values are shown in the bellow table.

Table 3. Valid HTTP parameters

Name	Value	Description
Relayi	01	Relayi value (i=116)
pw	password	Required at login



9. SNMP access

SmartDEN IP-16R supports SNMPv1 protocol – snmpget and snmpset. Most of the parameters can be configured/read via these commands. Read-only community string is used for reading and Read-Write Community String is used for changing the parameters. Note that it is not possible using of snmpwalk. Parameters that can be changed, are grouped according to their functions in the tables below. To obtain a valid OID number it is necessary to replace the "x" symbol with the prefix ".1.3.6.1.4.1.42505". Also all the snmp commands are described in the MIB file.

During SNMP access, it must be used snmpget and snmpset only to one OID and not to group of OIDs. Other commands (snmpwalk for instance) are not supported.

9.1. Product

Table 4. Product parameters

OID	Name	Access	Description	Syntax
x.6.1.1	Name	read-only	Description of the	DISPLAYST
			module	RING
x.6.1.2	Version	read-only	Current firmware	DISPLAYST
		-	version	RING
x.6.1.3	Date	read-only	Current firmware	DISPLAYST
			version build date	RING

9.2. Setup

Table 5. Setup

OID	Name	Access	Description	Syntax
x.6.2.1	SystemDate	read-	System Date	DISPLAYSTRIN
		write	(dd/mm/yyyy)	G
x.6.2.2	SystemTime	read-	System Time	DISPLAYSTRIN
		write	(hh:mm)	G
x.6.2.3.1.2.0	RelayName1	read-	Relay Name	DISPLAYSTRIN
		write	(maxlen=7)	G (SIZE (07))
x.6.2.3.1.2.1	RelayName2	read-	Relay Name	DISPLAYSTRIN
		write	(maxlen=7)	G (SIZE (07))
x.6.2.3.1.2.2	RelayName3	read-	Relay Name	DISPLAYSTRIN
		write	(maxlen=7)	G (SIZE (07))
x.6.2.3.1.2.3	RelayName4	read-	Relay Name	DISPLAYSTRIN
		write	(maxlen=7)	G (SIZE (07))
x.6.2.3.1.2.4	RelayName5	read-	Relay Name	DISPLAYSTRIN
		write	(maxlen=7)	G (SIZE (07))
x.6.2.3.1.2.5	RelayName6	read-	Relay Name	DISPLAYSTRIN
	-	write	(maxlen=7)	G (SIZE (07))
x.6.2.3.1.2.6	RelayName7	read-	Relay Name	DISPLAYSTRIN
		write	(maxlen=7)	G (SIZE (07))
x.6.2.3.1.2.7	RelayName8	read-	Relay Name	DISPLAYSTRIN

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X.6.2.3.1.2.8 RelayName9 write write write (maxlen=7) G (SIZE (07)) X.6.2.3.1.2.9 RelayName10 read-write (maxlen=7) G (SIZE (07)) X.6.2.3.1.2.1 RelayName10 read-write (maxlen=7) G (SIZE (07)) X.6.2.3.1.2.1 RelayName11 read-write (maxlen=7) G (SIZE (07)) X.6.2.3.1.2.1 RelayName12 Relay Name DISPLAYSTRIN (maxlen=7) G (SIZE (07)) X.6.2.3.1.2.1 RelayName13 read-write (maxlen=7) G (SIZE (07)) X.6.2.3.1.2.1 RelayName14 read-write (maxlen=7) G (SIZE (07)) X.6.2.3.1.2.1 RelayName14 read-write (maxlen=7) G (SIZE (07)) X.6.2.3.1.2.1 RelayName14 read-write (maxlen=7) G (SIZE (07)) X.6.2.3.1.3.1 RelayName16 read-write (maxlen=7) G (SIZE (07)) X.6.2.3.1.3.2 RelayState1 read-write (maxlen=7) G (SIZE (07)) X.6.2.3.1.3.3 RelayState2 read-write (maxlen=7) G (SIZE (07)) X.6.2.3.1.3.1 RelayState3 read-write (maxlen=7) G (SIZE (07)) X.6.2.3.1.3.3 RelayState		_		1	27 Aug 2014
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x.6.2.3.1.3.1 RelayState11 read-write Relay State (off-0, on-1) DISPLAYSTRIN G (SIZE (07)) x.6.2.3.1.3.1 RelayState12 read-write Relay State (off-0, on-1) DISPLAYSTRIN G (SIZE (07)) x.6.2.3.1.3.1 RelayState13 read-write Relay State (off-0, on-1) DISPLAYSTRIN G (SIZE (07)) x.6.2.3.1.3.1 RelayState14 read-write Relay State (off-0, on-1) DISPLAYSTRIN G (SIZE (07)) x.6.2.3.1.3.1 RelayState15 read-read-read-read-read-read-read-read-				,	
0 write on-1) G (SIZE (07)) x.6.2.3.1.3.1 RelayState12 read-write Relay State (off-0, on-1) DISPLAYSTRIN G (SIZE (07)) x.6.2.3.1.3.1 RelayState13 read-write Relay State (off-0, on-1) DISPLAYSTRIN G (SIZE (07)) x.6.2.3.1.3.1 RelayState14 read-write Relay State (off-0, on-1) DISPLAYSTRIN G (SIZE (07)) x.6.2.3.1.3.1 RelayState15 read-Relay State (off-0, on-1) DISPLAYSTRIN G (SIZE (07))	v623131	RelayState11			
x.6.2.3.1.3.1 RelayState12 read-write Relay State (off-0, on-1) DISPLAYSTRIN G (SIZE (07)) x.6.2.3.1.3.1 RelayState13 read-write Relay State (off-0, on-1) DISPLAYSTRIN G (SIZE (07)) x.6.2.3.1.3.1 RelayState14 read-write Relay State (off-0, on-1) DISPLAYSTRIN G (SIZE (07)) x.6.2.3.1.3.1 RelayState15 read-read-read-read-read-read-read-read-		Tolayolalo T		, , , , , , , , , , , , , , , , , , ,	
1 write on-1) G (SIZE (07)) x.6.2.3.1.3.1 RelayState13 read-write Relay State (off-0, on-1) DISPLAYSTRIN G (SIZE (07)) x.6.2.3.1.3.1 RelayState14 read-write Relay State (off-0, on-1) DISPLAYSTRIN G (SIZE (07)) x.6.2.3.1.3.1 RelayState15 read-read-read-read-Relay State (off-0, on-1) DISPLAYSTRIN DISPLAYSTRIN		RelayState12	<u> </u>		
x.6.2.3.1.3.1 RelayState13 read-write Relay State (off-0, on-1) DISPLAYSTRIN G (SIZE (07)) x.6.2.3.1.3.1 RelayState14 read-write Relay State (off-0, on-1) DISPLAYSTRIN G (SIZE (07)) x.6.2.3.1.3.1 RelayState15 read-read-read-read-read-read-read-read-	^.U.Z.J. I.J. I 1	Neiayolale 12		`	
2 write on-1) G (SIZE (07)) x.6.2.3.1.3.1 RelayState14 read-write Relay State (off-0, on-1) DISPLAYSTRIN G (SIZE (07)) x.6.2.3.1.3.1 RelayState15 read-read-read-read-read-read-read-read-	V 6 2 2 4 2 4	PolovState 12		· · ·	
x.6.2.3.1.3.1RelayState14read-writeRelay State (off-0, on-1)DISPLAYSTRIN G (SIZE (07))x.6.2.3.1.3.1RelayState15read-Relay State (off-0, DISPLAYSTRIN		KelayState 13		``	
3writeon-1)G (SIZE (07))x.6.2.3.1.3.1RelayState15read-Relay State (off-0, DISPLAYSTRIN		DeleviOtete 4.4	•		
x.6.2.3.1.3.1 RelayState15 read- Relay State (off-0, DISPLAYSTRIN		RelayState14		`	
		 		· · · · · · · · · · · · · · · · · · ·	
4 write on-1) G (SIZE (07))		RelayState15		``	
	<u> </u>		write	on-1)	G (SIZE (07))





x.6.2.3.1.3.1	RelayState16	read-	Relay State (off-0,	DISPLAYSTRIN
5	_	write	on-1)	G (SIZE (07))

9.3. Control

Table 6. Control

OID	Name	Access	Description	Syntax
x.6.3.1	RelaysStat	read-write	Access all the relays	INTEGER32
	е		with single command	(065535)
x.6.3.2	Reboot	read-write	Reboot the device	INTEGER
				(0255)
x.6.3.3	sysUpTime	read-only	The time (in hundredths of a second) since the device was last reinitialized.	TIMETICKS

1

To reboot the device via SNMP, set the Reboot value to the ASCII code of the first char of your Web password. For example, if this is the char 'a', code in decimal is 97.



10. Security considerations

The **SmartDEN IP-16R** runs a special firmware and do not have a general-purpose operating system. There are no extraneous IP services found on general-purpose operating systems (e.g. fingerd, tcp_wrapper, etc.) that can possibly be exploited by an unauthorized agent. In particular, the **SmartDEN IP-16R** does not run protocols such as Telnet and FTP which may have the potential for security breech. The only exception from this is the SNMPv1 protocol, that can be disabled.

Web-browser access

A challenge-response authentication is used in login process. When the password is entered, it is transmitted across the network in encrypted form, so eavesdropping on the data transmission will not reveal the password. Subsequent transmissions of the password to "login" onto the device are encrypted and "safe". The only case when the password is transmitted across the network "in the open", is when it is being changed and submitted in **General Setting** form. Therefore, you must set passwords in the secure environment where you can make sure that no one is "eavesdropping".

SNMP communication

SNMPv1 does not implement encryption. Authentication of clients is performed only by a "community string", which is transmitted in clear text. SNMP communication should be used in trusted networks and disabled if not used.

XML operation

A challenge-response authentication can be used in login process. The password can be transmitted by custom application across the network in encrypted form.



Web and XML access can be restricted by IP Address (range of IP Addresses) or by MAC Address.



11. PCB mechanical drawing

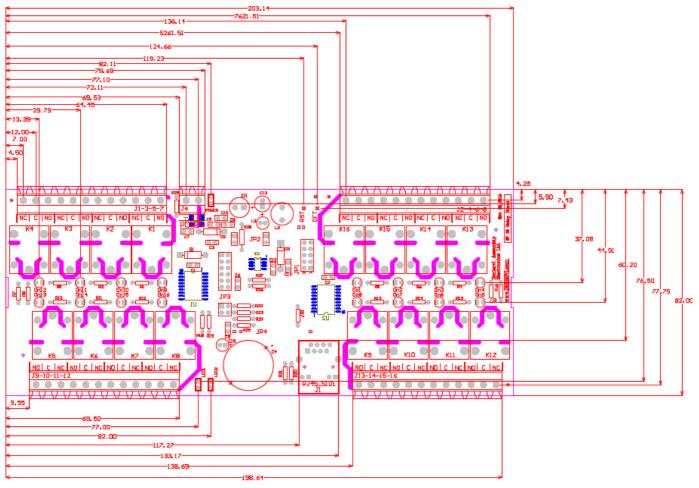


Figure 29. PCB drawings



12. DIN Rail BOX dimensions

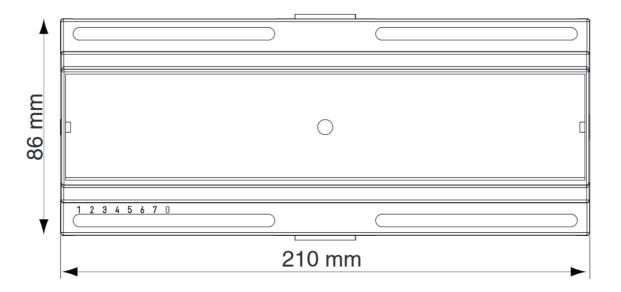


Figure 30. Box dimensions