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EAP

ELEKTROPLANET - AUTOMATION - PRO

AUTOMATION - FOR - PROFESSIONALS

Protokol syntax of

EAP Modules

DA-ET-4 / R-ET-4 / R-ET-12 / ADI-ET-8/8




This document contains all currently available commands for configuring, programming and operation of EAP IP Automation modules via HTTP GET and / or SNMP 1.0.

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General:

All EAP modules have an embedded web server, which can be accessed via the IP address and the default port 80.

The default password for the Web server access is: **admin**

However, the devices can also be controlled via HTTP GET commands and SNMP 1.0. The associated syntax is listed under each device. Likewise, you see there is also a complete standard response of the device.

The HTTP GET commands listed in this guide are each marked in blue, the XML response of the device in red.

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1. IP-Dimmer DA-ET-4 (4 Channels)

Command for getting all the values, retrieves the whole XML file:

Command: http://IP of device/current_state.xml?pw=admin

Answer of the device for this command:

<CurrentState>
<Dimmer1>
<Value>0</Value>
<EmergencyStop>NO</EmergencyStop>
<Overtemperature>NO</Overtemperature>
<Overvoltage>NO</Overvoltage>
<Overcurrent>NO</Overcurrent>
<SwitchingModeStatus>Sector</SwitchingModeStatus>
<LineFrequency>below 55 Hz</LineFrequency>
<Temperature>30</Temperature>
<MeasuredLineFrequency>50 Hz</MeasuredLineFrequency>
<Voltage>0 V</Voltage>
<Current>0.0 A</Current>
<VoltageN>0 V</VoltageN>
<CurrentN>0.2 A</CurrentN>
</Dimmer1>
<Dimmer2>
<Value>0</Value>
<EmergencyStop>NO</EmergencyStop>
<Overtemperature>NO</Overtemperature>
<Overvoltage>NO</Overvoltage>
<Overcurrent>NO</Overcurrent>
<SwitchingModeStatus>Phase</SwitchingModeStatus>
<LineFrequency>below 55 Hz</LineFrequency>
<Temperature>30</Temperature>
<MeasuredLineFrequency>50 Hz</MeasuredLineFrequency>
<Voltage>0 V</Voltage>
<Current>0.0 A</Current>
<VoltageN>0 V</VoltageN>
<CurrentN>0.6 A</CurrentN>
</Dimmer2>
<Dimmer3>
<Value>0</Value>
<EmergencyStop>NO</EmergencyStop>
<Overtemperature>NO</Overtemperature>
<Overvoltage>NO</Overvoltage>
<Overcurrent>NO</Overcurrent>
<SwitchingModeStatus>Sector</SwitchingModeStatus>
<LineFrequency>below 55 Hz</LineFrequency>
<Temperature>30</Temperature>
<MeasuredLineFrequency>50 Hz</MeasuredLineFrequency>
<Voltage>0 V</Voltage>
<Current>0.0 A</Current>
<VoltageN>0 V</VoltageN>

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<CurrentN>0.2 A</CurrentN>
</Dimmer3>
<Dimmer4>
<Value>0</Value>
<EmergencyStop>NO</EmergencyStop>
<Overtemperature>NO</Overtemperature>
<Overvoltage>NO</Overvoltage>
<Overcurrent>NO</Overcurrent>
<SwitchingModeStatus>Sector</SwitchingModeStatus>
<LineFrequency>below 55 Hz</LineFrequency>
<Temperature>30</Temperature>
<MeasuredLineFrequency>50 Hz</MeasuredLineFrequency>
<Voltage>0 V</Voltage>
<Current>0.0 A</Current>
<VoltageN>0 V</VoltageN>
<CurrentN>0.2 A</CurrentN>
</Dimmer4>
<MAC>7C:B1:77:00:00:10</MAC>
</CurrentState>

Examples to set individual values for each output port:

Dimming Channel 1: http://IP of device/current_state.xml?pw=admin&Dimmer1=135
Dimming Channel 2: http://IP of device/current_state.xml?pw=admin&Dimmer2=190
Dimming Channel 3: http://IP of device/current_state.xml?pw=admin&Dimmer3=90
Dimming Channel 4: http://IP of device/current_state.xml?pw=admin&Dimmer4=255

Example dimming combinations:

Set Dimmer channel 1 to the value 135, channel 2 to 200, channel 3 to 222 and channel 4 to 60:
http://IP of device/current_state.xml?pw=admin&Dimmer1=135&Dimmer2=200&Dimmer3=222&Dimmer4=60

Set only dimmer channel 1 to the value 135 and channel 3 to 222:
http://IP of device/current_state.xml?pw=admin&Dimmer1=135&Dimmer3=222

Values:

0-255 (0=0%, 255=100%)

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2. IP-Relay (4 Relays = R-ET-4 / 12 Relays = R-ET-12)

Command for getting all the values, retrieves the whole XML file:

Command: http://IP of device/current_state.xml?pw=admin

Answer of the device for this command (as example from a 4 port IP-Relay (R-ET-4)):

```
<CurrentState>
<Relay1>
<Name>RELAY1</Name>
<State>0</State>
</Relay1>
<Relay2>
<Name>RELAY2</Name>
<State>0</State>
</Relay2>
<Relay3>
<Name>RELAY3</Name>
<State>0</State>
</Relay3>
<Relay4>
<Name>RELAY4</Name>
<State>0</State>
</Relay4>
<Bank1>
<BankStatus>disabled</BankStatus>
<BankDir>stop</BankDir>
</Bank1>
<Bank2>
<BankStatus>disabled</BankStatus>
<BankDir>stop</BankDir>
</Bank2>
<MAC>7C:B1:77:00:00:08</MAC>
</CurrentState>
```

Examples to set individual values for each output (normaly modus, 4 (or 12) independent relays:

Set Relay 1 to “ON”: http://IP of device/current_state.xml?pw=admin&Relay1=1
Set Relay 1 to “OFF”: http://IP of device/current_state.xml?pw=admin&Relay1=0
Set Relay 2 to “ON”: http://IP of device/current_state.xml?pw=admin&Relay2=1
Set Relay 2 to “OFF”: http://IP of device/current_state.xml?pw=admin&Relay2=0

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Example for switching combinations:

Set Relay 1 & 3 to “ON” and 2 & 4 to “OFF”:
http://IP of device/current_state.xml?pw=admin&Relay1=1&Relay2=0&Relay3=1&Relay4=0

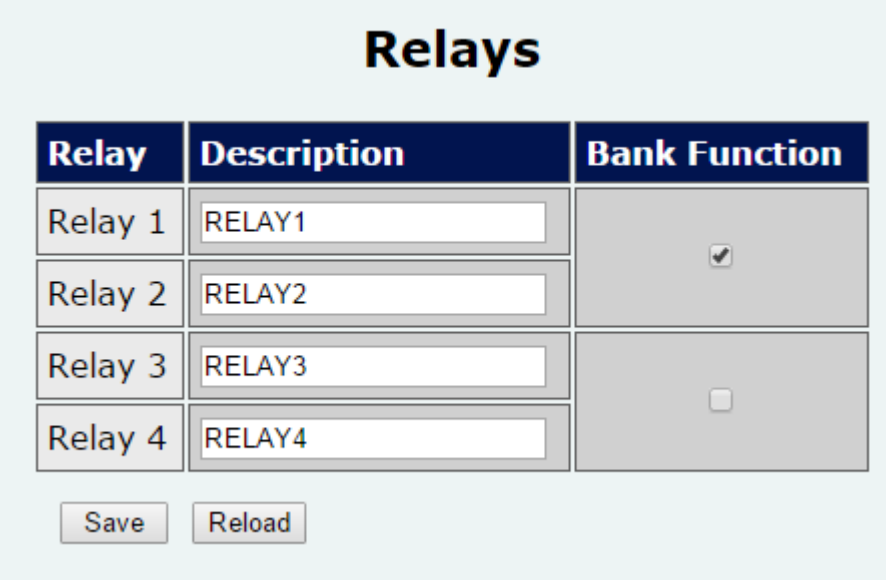
Set Relay 2 to “OFF and 4 to “ON”:
http://IP of device/current_state.xml?pw=admin&Relay2=0&Relay4=1

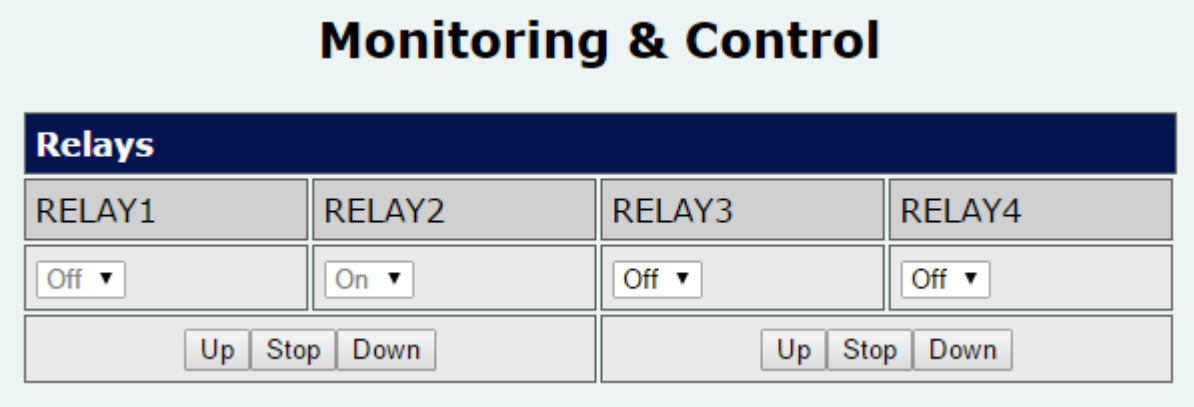
Values:

Relay = 1 - 4 or 1 - 12 (depending of the model)
possible values of the relays: 0 or 1 (0 = off, 1 = on)

Bank Function:

Bank function is a lock between 2 relays, so they can not be turned on each other. This is for example used to switch shutters blinds a.s.o) Below you can see the context between “Relay” and “Bank Function” on the Web-Interface.





When the “Bank Function” is enabled, you can see Relay 1 & 2 are not active to switch it over the dropdown button. You can in this case use only the UP/STOP/DOWN buttons.

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Activate Bank modus with http GET

R-ET-4 and R-ET-12:

Relay1 & Relay2 interdependent:	http://IP of device /current_state.xml?pw=admin&BankStatus1=enabled
Relay3 & Relay4 interdependent:	http://IP of device /current_state.xml?pw=admin&BankStatus2=enabled

Only R-ET-12:

Relay5 & Relay6 interdependent:	http://IP of device /current_state.xml?pw=admin&BankStatus3=enabled
Relay7 & Relay8 interdependent:	http://IP of device /current_state.xml?pw=admin&BankStatus4=enabled
Relay9 & Relay10 interdependent:	http://IP of device /current_state.xml?pw=admin&BankStatus5=enabled
Relay11 & Relay12 interdependent:	http://IP of device /current_state.xml?pw=admin&BankStatus6=enabled

Values Bank:

BankStatusN: enabled, disabled (N=BankNumber on “R-ET-4” 1...2 and for “R-ET-12” 1…6)

Activate relays in Bank modus with http GET

Set the Relay in Bank1 to “UP”:	http://IP of device/current_state.xml?pw=admin&BankDir1=up
Set the Relay in Bank1 to “DOWN”:	http://IP of device/current_state.xml?pw=admin&BankDir1=down
Set the Relay in Bank1 to “STOP”:	http://IP of device/current_state.xml?pw=admin&BankDir1=stop
Set the Relay in Bank2 to “UP”:	http://IP of device/current_state.xml?pw=admin&BankDir2=up
Set the Relay in Bank2 to “DOWN”:	http://IP of device/current_state.xml?pw=admin&BankDir2=down
Set the Relay in Bank2 to “STOP”:	http://IP of device/current_state.xml?pw=admin&BankDir2=stop

Values BankDir:

BankDirN: up, stop, down (N=1…6)

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3. IP-Input Module ADI-ET-8/8

Command for getting all the values, retrieves the whole XML file:

Command: http://IP of device/current_state.xml?pw=admin

Answer of the device for this command:

```
<CurrentState>
<DI1>
<Name>DI1</Name>
<Value>1</Value>
</DI1>
<DI2>
<Name>DI2</Name>
<Value>1</Value>
</DI2>
<DI3>
<Name>DI3</Name>
<Value>1</Value>
</DI3>
<DI4>
<Name>DI4</Name>
<Value>1</Value>
</DI4>
<DI5>
<Name>DI5</Name>
<Value>1</Value>
</DI5>
<DI6>
<Name>DI6</Name>
<Value>1</Value>
</DI6>
<DI7>
<Name>DI7</Name>
<Value>1</Value>
</DI7>
<DI8>
<Name>DI8</Name>
<Value>1</Value>
</DI8>
<AI1><Name>AI1</Name>
<Value>0</Value>
</AI1>
<AI2>
<Name>AI2</Name>
<Value>0</Value>
</AI2>
<TI1>
<Name>TI1</Name>
<Value_C>24.0</Value_C>
</TI1>
```


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```
<TI2>
<Name>TI2</Name>
<Value_C>22.5</Value_C>
</TI2>
<TI3>
<Name>TI3</Name>
<Value_C>20.9</Value_C>
</TI3>
<TI4>
<Name>TI4</Name>
<Value_C>29.1</Value_C>
</TI4>
<TI5>
<Name>TI5</Name>
<Value_C>6.6</Value_C>
</TI5>
<TI6>
<Name>TI6</Name>
<Value_C>---</Value_C>
</TI6>
</CurrentState>
```

Description:

DI1 - DI8= optically isolated digital input
AI1 - AI2 = analog input 0-10V
TI1 - TI6 = analog input for NTC sensor

Values:

DI1 - DI8= 0 or 1 (0= contact closed, 1 = contact open)
AI1 - AI2= 0 - 1000 (0 = 0V, 1000 = 10.00V)
TI1 - TI6 = “-40.0” up to “80.0” (depending of your NTC) or “---“ for not connected

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