Values can only be read, it can NOT be switched!

Available on devices of the V3 version from patch level 1008 and V2 versions from patch level 1001.

Special features of the V2 generation devices

The devices ALL3690, ALL3691, ALL3075V2 partial did not have no numerical sensor ID's

ALL4076 with connected temperature or temperature / humidity sensor the following query
mode=all&id={1/2}
returns only the actuator values!

Description without Activated Basic authentication. If this is enable, you must pass the Authentication in URL.
(Basic Authentication: http:// USER: PASSWORD@192.168.0.100/xml/json.php)

In this description is called Device IP is the IP address set in the factory state "192.168.0.100".
This must be replaced by the assigned address.

Call "http://192.168.0.100/xml/json.php".

Parameter

"mode={all} {sensor} {actor} {info} {infomin}"
"id={id}" (optional) Number or name of the read out sensor / actuator
"callback={objekt}" (optional) Values are returned as JSONP object
"simple" (optional) Reduced output only useful in mode=all,sensor,actor
Command (URL)  
http://192.168.0.100/xml/json.php?mode=all

Explanation  
Return all sensors / actuators including info and Values

Response  
[
  {
    "id": "1",
    "name": "Intern",
    "description": "Temperatursensor",
    "error": "0",
    "value": "37.68",
    "connection": {
      "bus": "65",
      "group": "0",
      "multiplexer": "7",
      "port": "0"
    },
    "config": {
      "icon": null,
      "display": {
        "min": "-55",
        "max": "150"
      },
      "limit": {
        "min": "-49.5",
        "max": "135"
      }
    },
    "info": {
      "activ": "1",
      "bitaddress": "0",
      "chipaddress": "1",
      "chipid": "2",
      "chipnumber": "6",
      "enabled": "1",
      "helperchipaddress": "0",
      "helperchipnumber": "0",
      "unit": "°C",
      "type": "1"
    },
    "minmax": {
      "today": {
        "min": "20.00",
        "max": "44.00"
      },
      "absolute": {
        "min": "19.75",
        "max": "58.37"
      }
    }
  }
]

***) Output is only Indicated for devices from version 3.02.1014 / 1015
Description, see last page

****) Output is only Displayed when the sensor / actuator is connected to a multiplexer.
sensor

Command (URL)  
http://192.168.0.100/xml/json.php?mode=sensor

Explanation  
Returns all sensors back together with info and values

Response

```json
[{
  "id": "1",
  "name": "Intern",
  "description": "Temperatursensor",
  "error": 0,
  "value": "37.68",
  "connection": {
    "bus": "65",
    "group": "0",
    "port": "0"
  },
  "config": {
    "icon": null,
    "display": {
      "min": "-55",
      "max": "150"
    },
    "limit": {
      "min": "-49.5",
      "max": "135"
    }
  },
  "info": {
    "activ": "1",
    "bitaddress": "0",
    "chipaddress": "1",
    "chipid": "2",
    "chipnumber": "6",
    "enabled": "1",
    "helperchipaddress": "0",
    "helperchipnumber": "0",
    "unit": "°C",
    "type": "1"
  },
  "minmax": {
    "today": {
      "min": "20.00",
      "max": "44.00"
    },
    "absolute": {
      "min": "19.75",
      "max": "58.37"
    }
  }
}]
```
**info**

Command (URL)  
http://192.168.0.100/xml?mode=info

Explanation  
Returns an detailed information about the device

Response  
```json
{
    "devicetype": "ALL3418",
    "devicename": "ALL3418_Demo",
    "network": {
        "mode": "static",
        "ipaddress": "192.168.1.34",
        "netmask": "255.255.0.0",
        "gateway": "192.168.1.1",
        "dns1": "192.168.1.1",
        "dns2": "8.8.8.8"
    },
    "mac": {
        "eth2": "00:0F:C9:0B:B8:BA",
        "ra0": "00:0F:C9:0B:B8:B9"
    },
    "uptime": "08:40:31 up  1:00",
    "system_rfc": "Wed, 13 Nov 2013 08:40:31 +0100",
    "softversion": "3.02.1007",
    "revision": "0.02",
    "memory": {
        "total": "60804 kB",
        "free": "38304 kB",
        "used": "22500 kB",
        "system": "12.86 MB"
    }
}
```

**infomin**

Command (URL)  
http://192.168.0.100/xml?mode=infomin

Explanation  
Returns a Minimal info about the device

Response  
```json
{
    "devicetype": "ALL3418",
    "devicename": "ALL3418_Demo",
    "softversion": "3.02",
    "patchlevel": "1007",
    "revision": "0.02"
}
```
id

Command (URL)  
http://192.168.0.100/xml?mode=sensor&id=101

Explanation  
(\textit{optional})
Only functional in the modes: all, sensor, actor

with these parameters, the output can be limited to a sensor / actuator.
Returns only the info and values of the requested ID.

Response  

```json
[{
  "id": "101",
  "name": "Temperatur",
  "description": "Temperatursensor",
  "error": 0,
  "value": "22.12",
  "connection": {
    "bus": "65",
    "group": "0",
    "port": "0"
  },
  "config": {
    "icon": null,
    "display": {
      "min": "-40",
      "max": "128"
    },
    "limit": {
      "min": "-36",
      "max": "115.2"
    }
  },
  "info": {
    "activ": "1",
    "bitaddress": "0",
    "chipaddress": "1",
    "chipid": "2",
    "chipnumber": "6",
    "enabled": "1",
    "helperchipaddress": "0",
    "helperchipnumber": "0",
    "unit": "\textdegree C",
    "type": "1"
  },
  "minmax": {
    "today": {
      "min": "11.92",
      "max": "28.64"
    },
    "absolute": {
      "min": "12.02",
      "max": "35.10"
    }
  }
}]
```
callback

Command (URL)  

http://192.168.0.100/xml?mode=sensor&id=101&callback=demo

Explanation  

(optional)  
can be set to get back the data as a JSONP object.

Response  

demo([[
  "id": "101",
  "name": "Temperatur",
  "description": "Temperatursensor",
  "error": 0,
  "value": "22.16",
  "connection": {
    "bus": "65",
    "group": "0",
    "port": "0"
  },
  "config": {
    "icon": null,
    "display": {
      "min": "-40",
      "max": "128"
    },
    "limit": {
      "min": "-36",
      "max": "115.2"
    }},
  "info": {
    "activ": "1",
    "bitaddress": "0",
    "chipaddress": "1",
    "chipnumber": "6",
    "chipid": "2",
    "enabled": "1",
    "helperchipaddress": "0",
    "helperchipnumber": "0",
    "unit": "°C",
    "type": "1"
  },
  "minmax": {
    "today": {
      "min": "11.92",
      "max": "28.64"
    },
    "absolute": {
      "min": "12.02",
      "max": "35.10"
    }]
]])
**Simple** only mode=all,sensor,actor

**Command (URL)**
http://192.168.0.100/xml/json.php?mode=all

**Explanation** *(optional)*
Reduced output only absolutely necessary data.

**Response**
```

[{
    "error": 0,
    "id": "101",
    "name": "Temperatur",
    "type": "1",
    "unit": "°C",
    "value": "31.25"
}]

```
**bitaddress:**

When a sensor / actuator has several outputs and inputs, then we can distinguish hereby the outputs.
(count always starts at 0, e.g. ALL4027 0...7)

**chipaddress:**

The I2C address of the electronic module that controls this sensor.

**chipid:**

Unique identification number that describes what type of sensor it is.

**chipnumber:**

ID, which describes the electronic module.

**helperchipaddress:**

If an additional component for additional functions required in a sensor.
e.g. in ALL4590 for selection of the individual phases, so here is the I2C address of this module specified.

**helperchipnumber:**

as chipnumber, only for the (sub-)component
<table>
<thead>
<tr>
<th>Errorcode</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>777000</td>
<td>Collecting data...</td>
</tr>
<tr>
<td>777001</td>
<td>Sensor not initialized [sensor_shm_demon]</td>
</tr>
<tr>
<td>777002</td>
<td>No answer from chip [i2c_demon]</td>
</tr>
<tr>
<td>777003</td>
<td>could not read /proc/stat [i2c_demon]</td>
</tr>
<tr>
<td>777004</td>
<td>Could not find the first source sensor with a specified logical ID [i2c_demon]</td>
</tr>
<tr>
<td>777005</td>
<td>Could not find the second source sensor with a specified logical ID [i2c_demon]</td>
</tr>
<tr>
<td>777006</td>
<td>One of the source sensors is invalid [i2c_demon]</td>
</tr>
<tr>
<td>777007</td>
<td>Division by Zero [i2c_demon]</td>
</tr>
<tr>
<td>777008</td>
<td>Timeout: sensor provides invalid or no data [sensor_shm_demon]</td>
</tr>
<tr>
<td>777009</td>
<td>No answer from slave [all3075_demon]</td>
</tr>
<tr>
<td>777010</td>
<td>No answer or incorrect answer from the MRT machine [ct_demon]</td>
</tr>
<tr>
<td>777011</td>
<td>HTTP download address for the sensor could not be reached [rc_read_demon]</td>
</tr>
<tr>
<td>777012</td>
<td>HTTP command for the actuator returns nothing [rc_write_demon]</td>
</tr>
<tr>
<td>777013</td>
<td>Authentication needed!</td>
</tr>
<tr>
<td>777014</td>
<td>Sensor not found in the import file possibly was removed a sensor on the</td>
</tr>
<tr>
<td></td>
<td>Imported device [rc_read_demon]</td>
</tr>
<tr>
<td>777015</td>
<td>Server response was not interpretable [rc_read_demon]</td>
</tr>
<tr>
<td>777994</td>
<td>Remote control functionality not activated!</td>
</tr>
<tr>
<td>777995</td>
<td>Error</td>
</tr>
<tr>
<td>777996</td>
<td>undefined error!</td>
</tr>
<tr>
<td>777997</td>
<td>given sensor is not a counter!</td>
</tr>
<tr>
<td>777998</td>
<td>Remote control disabled!</td>
</tr>
<tr>
<td>777999</td>
<td>Parameter error!</td>
</tr>
</tbody>
</table>