

Domoticz

Explore Custom Pages

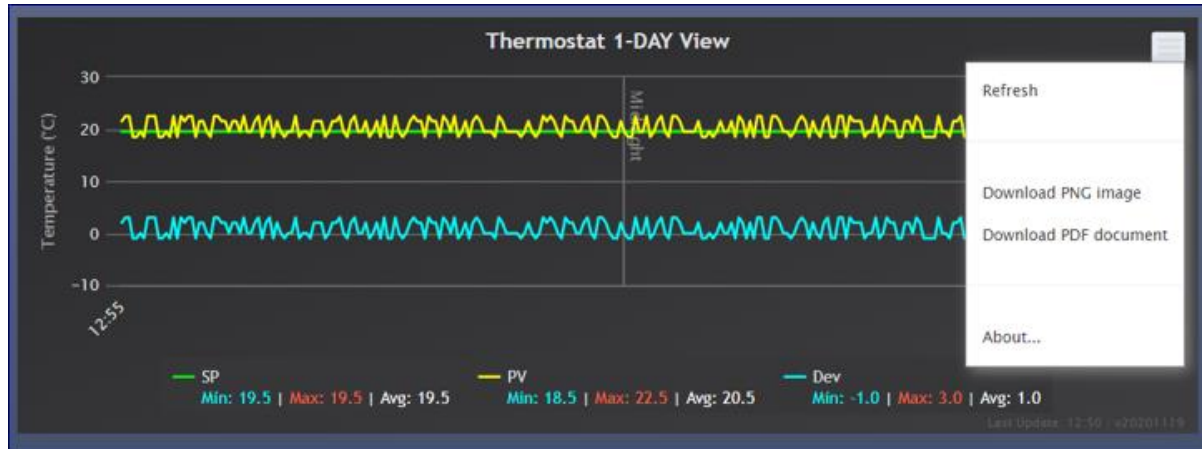
Highcharts & Google Charts

*Developed For Personal Use*

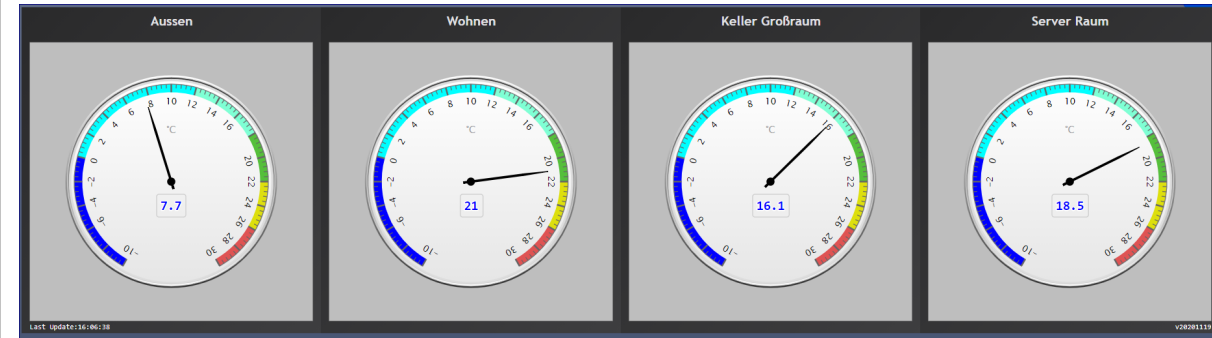
*29.11.2020*

# Selected Examples Highcharts

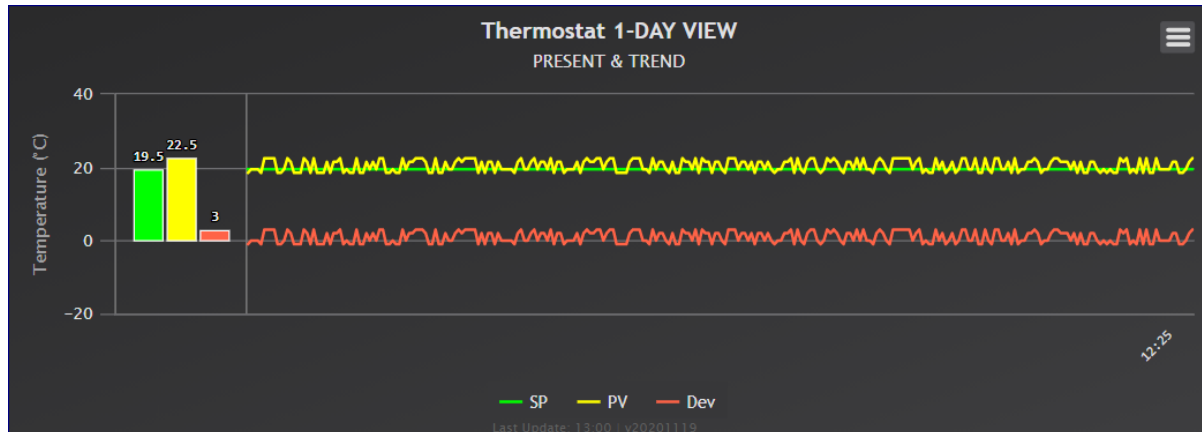
## Line Chart



## Angular Gauges



## Column & Line Chart



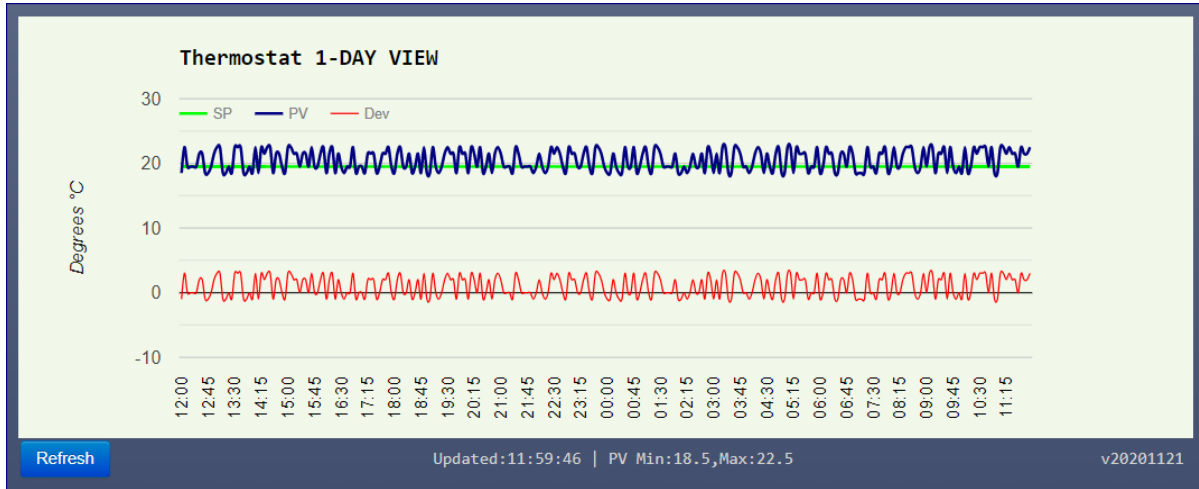
## Combined Chart



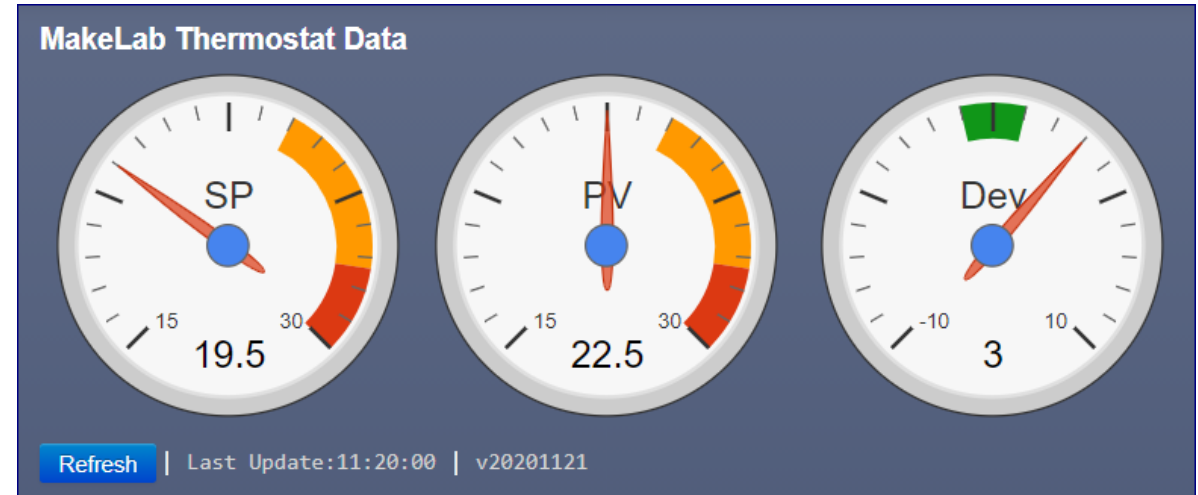
INFO: More examples in the archive “[explore\\_custom\\_pages\\_charts.zip](#)”.

# Selected Examples Google Charts

## Line Chart

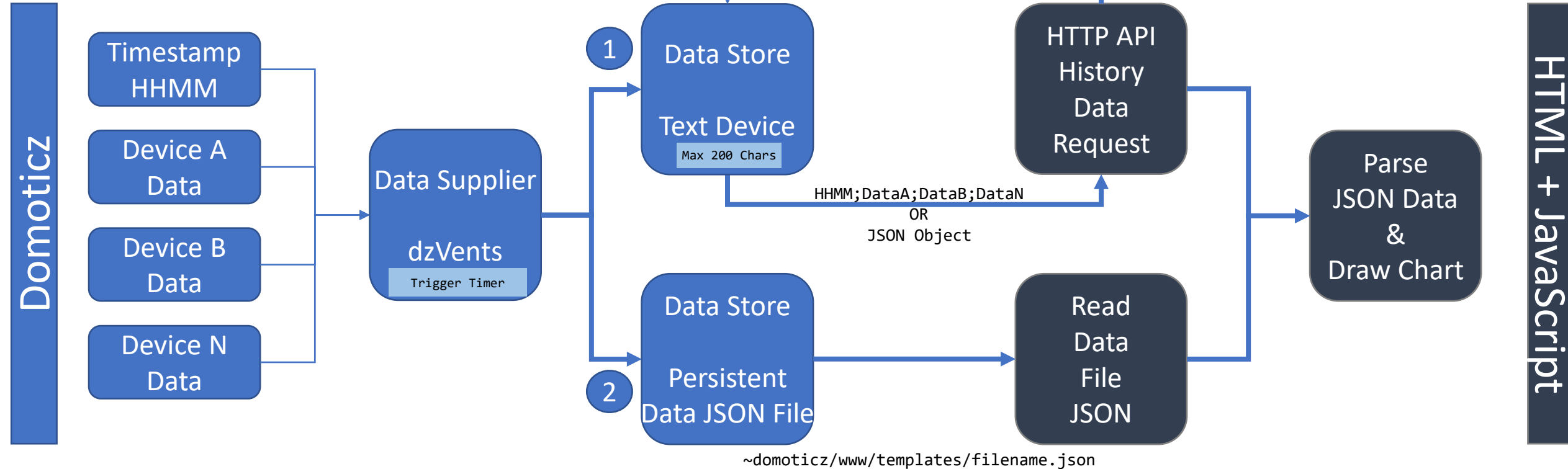


## Gauges



INFO: More examples in the archive *"[explore\\_custom\\_pages\\_charts.zip](#)"*.

# Multiple Devices Chart Concept








Two Data Source Solutions:

1. Domoticz Text Device
2. External Data File

# Test Scenario

## Test Scenario Devices

| Idx ^  | Hardware ^     | ID ^     | Unit ^ | Name ^                      | Type ^     | SubType ^    | Data   |
|--|----------------|----------|--------|-----------------------------|------------|--------------|--|
|  30 | VirtualSensors | 001406E  | 1      | MakeLab Thermostat Setpoint | Thermostat | SetPoint     | 21.5   |
|  31 | VirtualSensors | 1406F    | 1      | MakeLab Temperature         | Temp       | LaCrosse TX3 | 24.5 C   |
|  32 | VirtualSensors | 00082032 | 1      | MakeLab Thermostat Battery  | General    | Percentage   | 30%  |
|  42 | VirtualSensors | 00082042 | 1      | MakeLab Thermostat Data     | General    | Text         | 1025;21.5;20.5   |
|  43 | VirtualSensors | 00082043 | 1      | MakeLab Thermostat JSON     | General    | Text         | {"timestamp": "1235", "devices": [{"name": "MakeLab Thermostat Setpoint", "data": 17.5}, {"name": "MakeLab Temperature", "data": 19.5}]} |

## Test Scenario Value Flow with dzVents device attributes

IDX 30 setPoint + IDX 31 temperature = IDX 42 HHMM;setPoint;temperature

IDX 30 Name & setPoint + IDX 31 Name & temperature = IDX 43 JSON Object

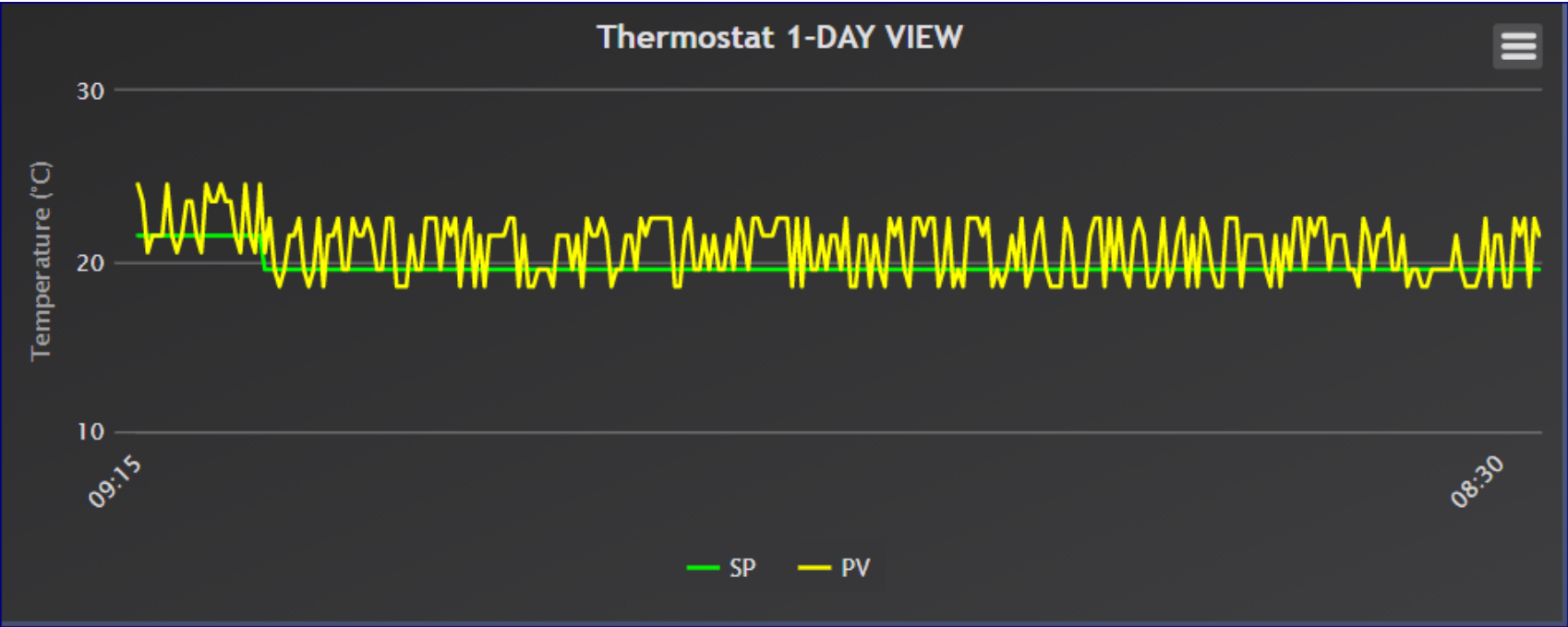
```
{"timestamp": "HHMM", "devices": [
  {"name": "name", "data": setPoint}, {"name": "name", "data": temperature}
]}
```

IDX 30 setPoint + IDX 31 temperature = External File JSON Object

```
{
  "result" : [
    {"pv": setPoint, "sp": temperature, "time": "12:38"},
    ...
  ],
  "status": "OK",
  "title": "Thermostat Data"
}
```

# Highcharts

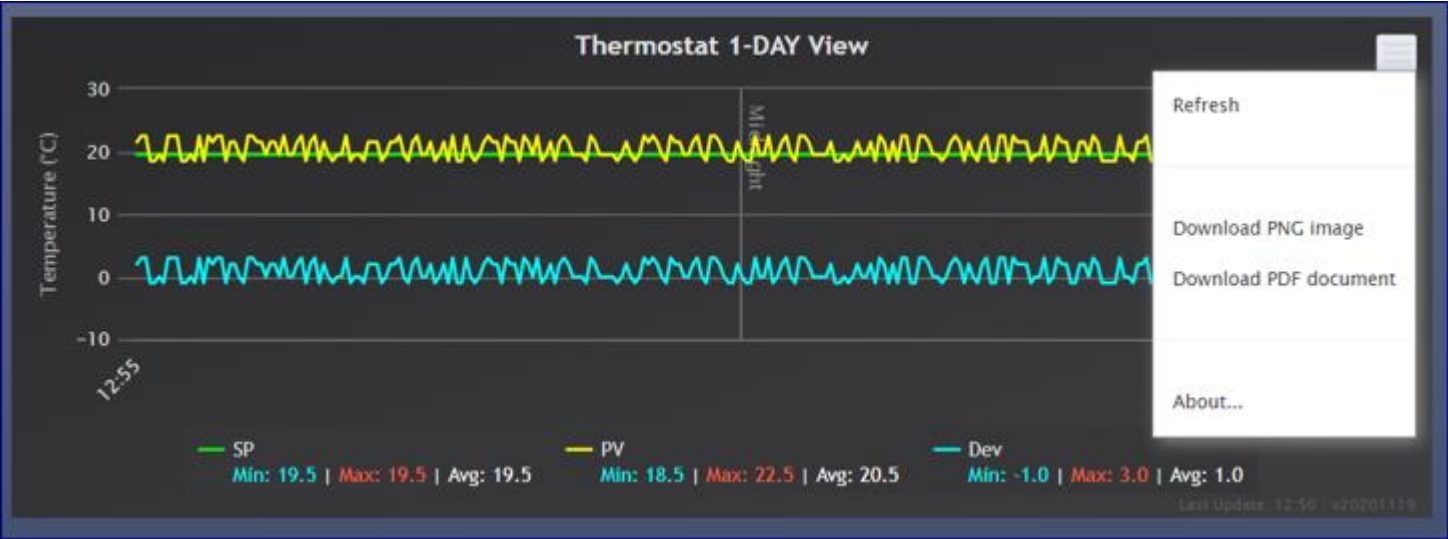
Set Point (SP) & Temperature (PV) 24 hour data (sample rate 5 mins)



```
Data Content HTTP API Response
{
  "result" : [
    {
      "Data" : "0913;18.5;21.5",
      "Date" : "2020-11-05 09:13:00",
      "User" : "",
      "idx" : "4"
    },
    ... ],
  "status" : "OK",
  "title" : "TextLog"
}
```

| Item                 | Description   |
|----------------------|---|
| File Source          | highcharts\linechart\datatextcsv\thermostat-1dayview.html<br>(archive: explore_custom_pages_charts.zip) |
| Data Source          | Domoticz virtual sensor Text Device History Log with 1 day setting (datatextcsv)                        |
| Data Source Location | Domoticz HTTP API Request: <i>http://domoticz-ip:port/json.htm?type=textlog&amp;idx=IDX</i> Text Device |
| Data Content         | CSV string: HHMM;SP;PV from the HTTP API Response key Data  |
| Chart Additions      | xAxis labels first & last only; Credit information disabled   |

Set Point (SP) & Temperature (PV) 24 hour data (sample rate 5 mins) with chart additions.

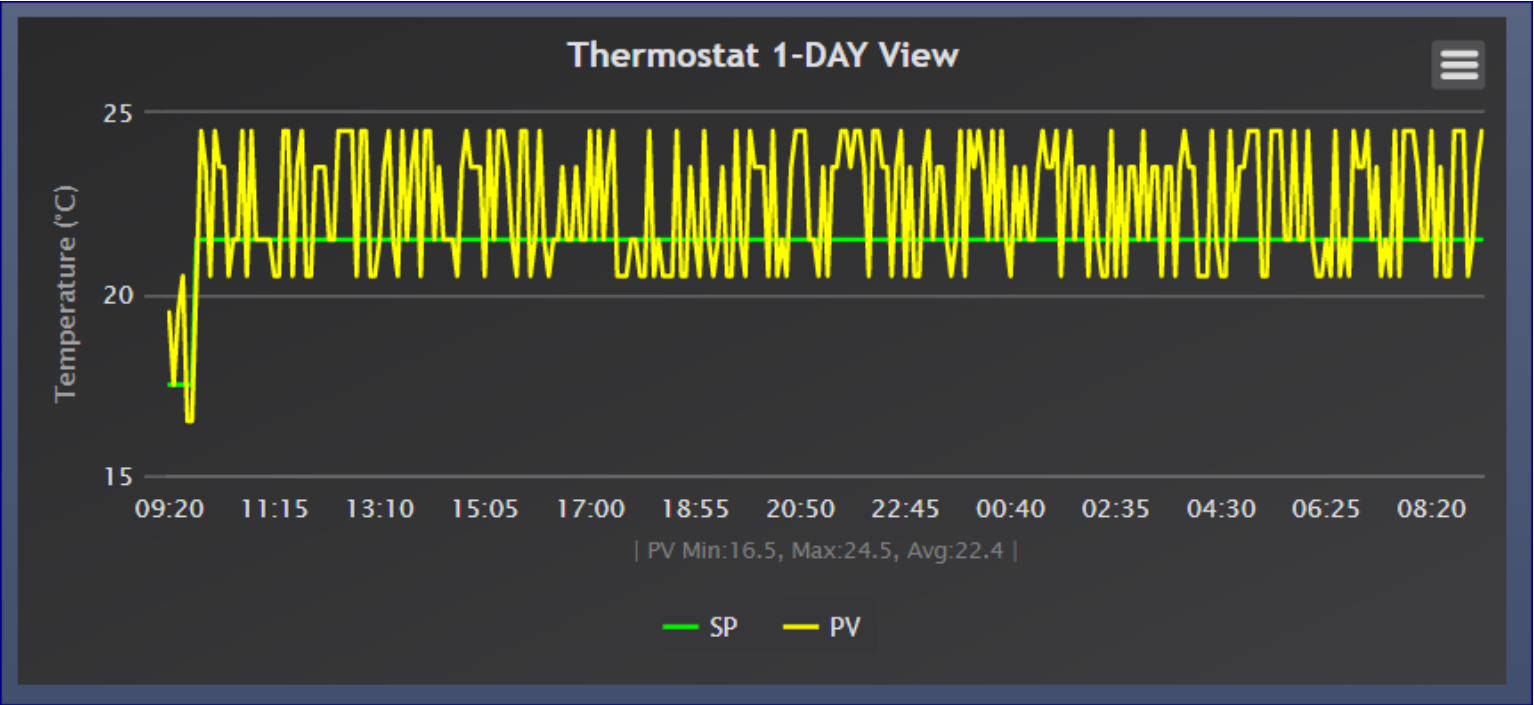


```
Data Content HTTP API Response
{
  "result" : [
    {
      "Data" : "0913;18.5;21.5",
      "Date" : "2020-11-05 09:13:00",
      "User" : "",
      "idx" : "4"
    },
    ... ],
  "status" : "OK",
  "title" : "TextLog"
}
```

| Item                 | Description  |
|----------------------|--|
| File Source          | highcharts\linechart\datatextcsv\thermostat-1dayview-advanced.html<br>(archive: explore_custom_pages_charts.zip)   |
| Data Source          | Domoticz virtual sensor Text Device History Log with 1 day setting (datatextcsv)   |
| Data Source Location | Domoticz HTTP API Request: <i>http://domoticz-ip:port/json.htm?type=textlog&amp;idx=IDX</i> Text Device  |
| Data Content         | CSV string: HHMM;SP;PV from the HTTP API Response key Data   |
| Chart Additions      | <ul style="list-style-type: none"><li>Data series as array with device name, datapoints, line color</li><li>Chart series legend with Min, Max, Avg</li><li>Plot line at midnight</li><li>Chart credits with last update and link to view the log of the text device with datapoints</li><li>Customized context menu with own function Refresh, two standard menu items (Download ...) and About Dialog (Bootbox)</li></ul> |



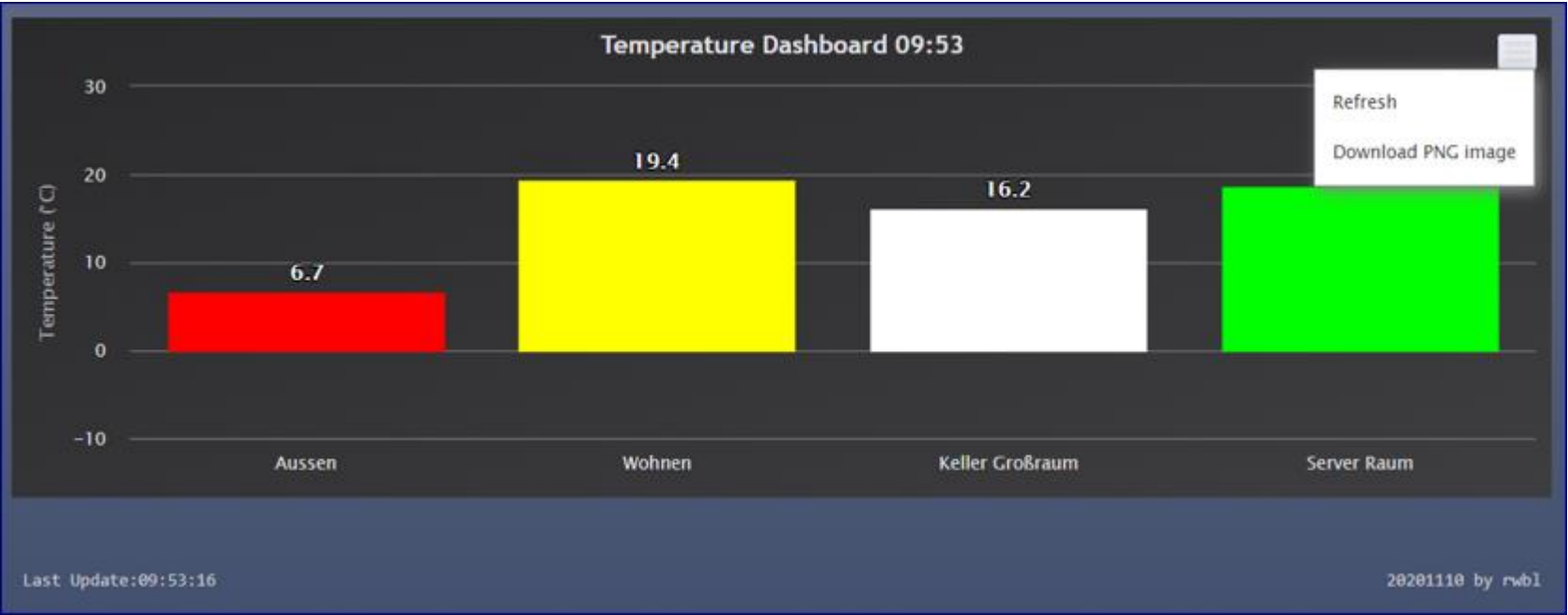
Set Point (SP) & Temperature (PV) (sample rate 5 mins)



```
Data Content File with JSON Object
{
  "result" : [
    {"pv":16.5,"sp":17.5,"time":"12:38"},
    ...
  ],
  "status":"OK",
  "title":"Thermostat Data"
}
```

| Item                 | Description   |
|----------------------|---|
| File Source          | highcharts\linechart\datafilejson\thermostat-1dayview.html<br>(archive: explore_custom_pages_charts.zip)    |
| Data Source          | External file with JSON object created in regular intervals by dzVents using persistent data (datafilejson) |
| Data Source Location | ~domoticz/www/templates/thermostat_1dayview_data.json   |
| Data Content         | JSON array "result" with key:value pairs = "pv": NN.N, "sp": NN.N, "time": HH:MM                            |
| Chart Additions      | xAxis title with PV Min, Max, Avg   |

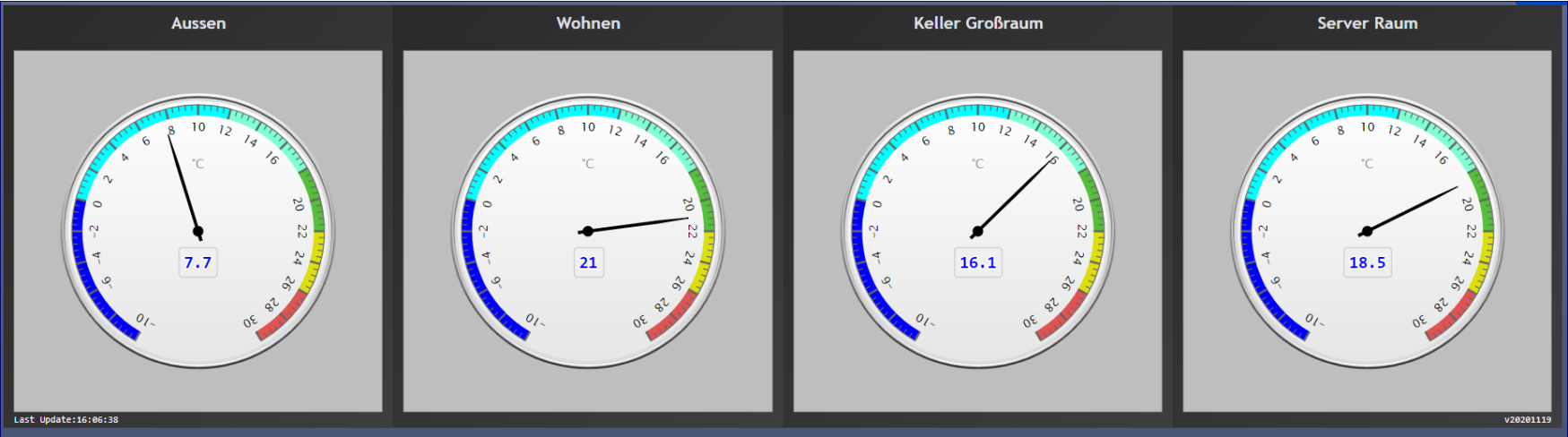
Four Devices selected from Domoticz Room Plan



```
Data Content HTTP API Response
{
  "ServerTime" : "2020-11-09 19:28:40",
  "result" :
  [
    {"Name" : "Aussen",
     "Temp" : 7.7,
     "idx" : "344"},
    {"Name" : "Wohnen",
     "Temp" : 21,
     "idx" : "350"},
    {"Name" : "Server Raum",
     "Temp" : 16.1,
     "idx" : "351"},
    {"Name" : "Keller Gro\u00dfraum",
     "Temp" : 18.5,
     "idx" : "356"},
  ],
  "status" : "OK",
  "title" : "Devices"
}
```

| Item                 | Description  |
|----------------------|--|
| File Source          | highcharts\columnchart\datahttpplan\temperature-dashboard.html<br>(archive: explore_custom_pages_charts.zip) |
| Data Source          | Temperature Devices data (datahttpplan)  |
| Data Source Location | Domoticz HTTP API Request: <i>http://domoticz-ip:port/json.htm?type=devices&amp;plan=IDX ROOMPLAN</i>        |
| Data Content         | JSON array “result” with key:value pairs   |
| Chart Additions      | Custom menu; Footer as HTML table outside chart area   |

Four Temperature Devices selected from Domoticz Room Plan

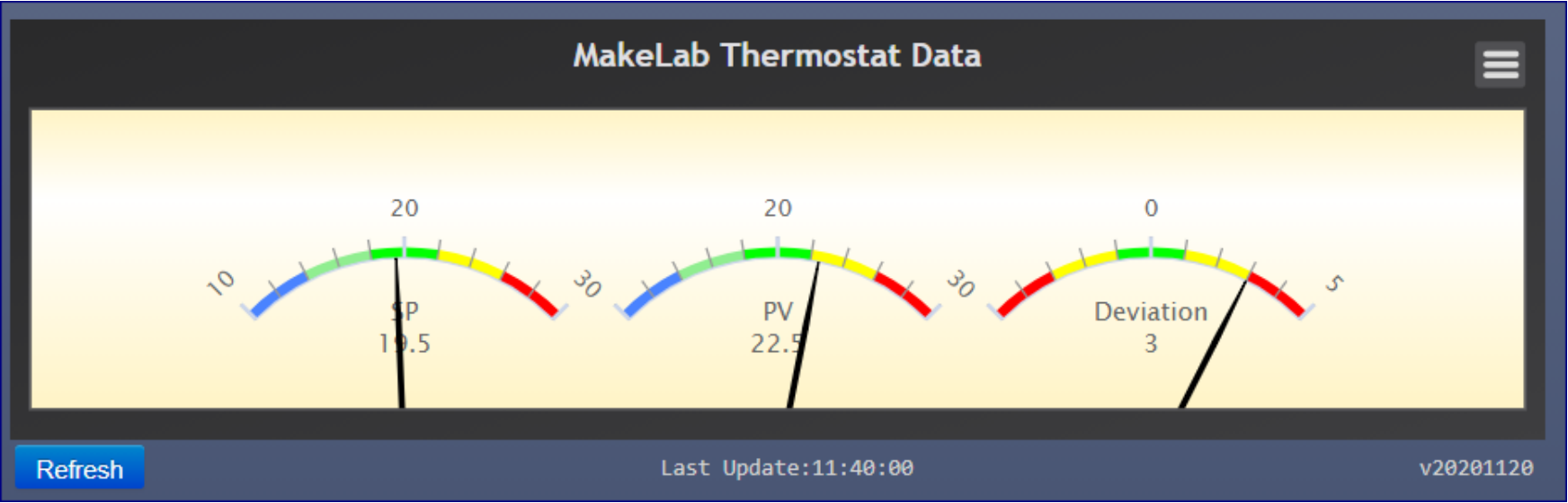


Data Content HTTP API Response

```
{
  "ServerTime" : "2020-11-09 19:28:40",
  "result" :
  [
    {"Name" : "Aussen",
     "Temp" : 7.7,
     "idx" : "344"},
    {"Name" : "Wohnen",
     "Temp" : 21,
     "idx" : "350"},
    {"Name" : "Server Raum",
     "Temp" : 16.1,
     "idx" : "351"},
    {"Name" : "Keller Gro\u00dfraum",
     "Temp" : 18.5,
     "idx" : "356"},
  ],
  "status" : "OK",
  "title" : "Devices"
}
```

| Item                 | Description   |
|----------------------|---|
| File Source          | highcharts\angulargaugeschart\datahttpplan\temperature-dashboard.html<br>(archive: explore_custom_pages_charts.zip) |
| Data Source          | Temperature Devices data (datahttpplan)   |
| Data Source Location | Domoticz HTTP API Request: <i>http://domoticz-ip:port/json.htm?type=devices&amp;plan=IDX ROOMPLAN</i>               |
| Data Content         | JSON array “result” with key:value pairs  |
| Chart Additions      | 4 Gauges as individual Highcharts Angular Gauges charts added to HTML DIV container as child                        |

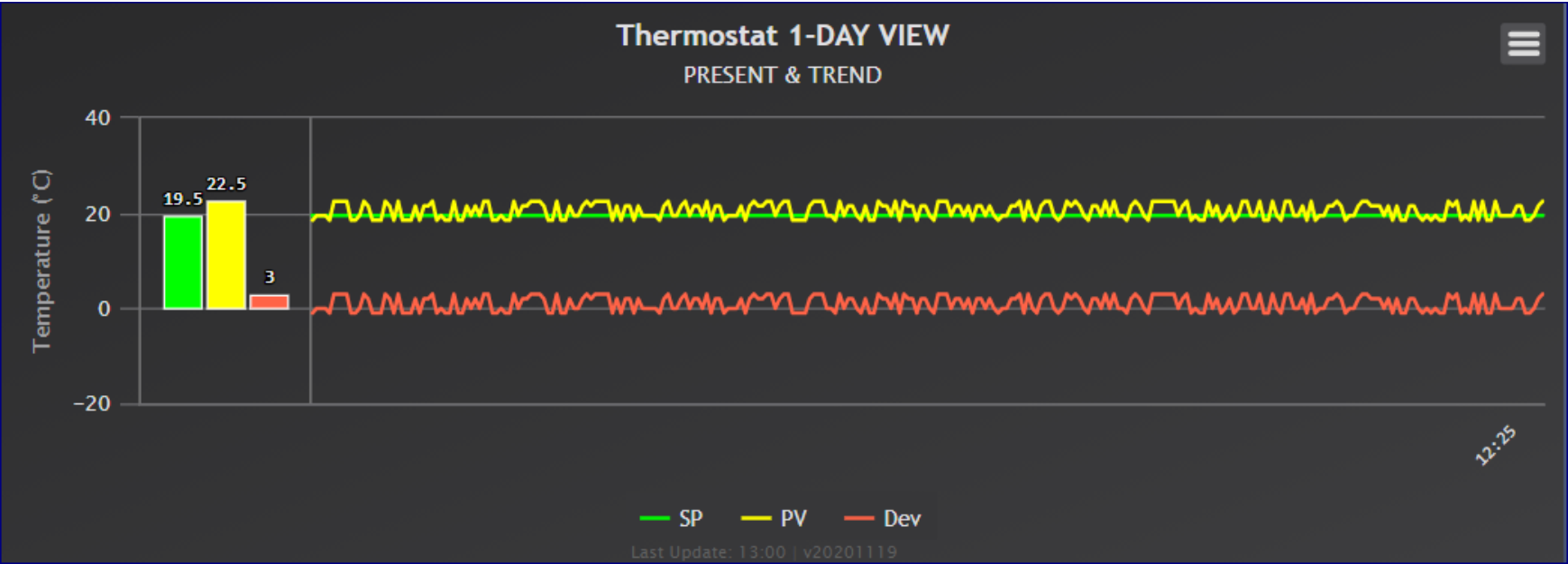
Set Point (SP), Temperature (PV), Deviation (Dev)



```
Data Content HTTP API Response
{
  "app_version" : "2020.2 (build 12554)",
  "result" : [
    {
      ...
      "Data" : "0913;21.0;24.0",
      "Name" : "MakeLab Thermostat Data",
      ...
      "idx" : "42"
    }
  ],
  "status" : "OK",
  "title" : "Devices"
}
```

| Item                 | Description  |
|----------------------|--|
| File Source          | highcharts\angulargaugeschart\datahttprid\thermostat-dashboard-vu.html<br>(archive: explore_custom_pages_charts.zip) |
| Data Source          | Temperature Devices data (datahttprid)   |
| Data Source Location | Domoticz HTTP API Request: <i>http://domoticz-ip:port/json.htm?type=devices&amp;rid=IDX THERMOSTAT</i>               |
| Data Content         | CSV string: HHMM;SP;PV from the HTTP API Response key result[0].Data   |
| Chart Additions      | Footer with refresh button, Last Update & Version information  |

Set Point (SP), Temperature (PV) & Deviation (Dev) 24 hour data (sample rate 5 mins)



```
Data Content HTTP API Response
{
  "result" : [
    {
      "Data" : "0913;19.5;21.5",
      "Date" : "2020-11-05 09:13:00",
      "User" : "",
      "idx" : "4"
    },
    ... ],
  "status" : "OK",
  "title" : "TextLog"
}
```

| Item                 | Description   |
|----------------------|---|
| File Source          | highcharts\columnlinechart\datatextcsv\thermostat-1dayview.html<br>(archive: explore_custom_pages_charts.zip)               |
| Data Source          | Domoticz virtual sensor Text Device History Log with 1 day setting (datatextcsv)  |
| Data Source Location | Domoticz HTTP API Request: <i>http://domoticz-ip:port/json.htm?type=textlog&amp;idx=IDX</i> Text Device                     |
| Data Content         | CSV string: HHMM;SP;PV from the HTTP API Response key result[NNN].Data  |
| Chart Additions      | Credits bottom centre Last Update + Version; xAxis plot lines to built box around column chart; xAxis label last value only |

Weather forecast data at the hours 0,6,12,18 - sample rate every hour (Weather forecast delivered by the Norwegian Meteorological Institute [met.no](https://met.no)).




Rainfall = precipitation\_amount  
Sea-Level Pressure = air\_pressure\_at\_sea\_level  
Temperature = air\_temperature  
xAxis Label = time - date extracted from DD-MM HH:MM  
Not used: probability\_of\_precipitation, wind\_speed

**Credits**  
The solution is based on [this](#) example.  
Thanks a lot to the developer(s).

```
Data Content File JSON Object
{
  "result" :
  [
    {
      "air_pressure_at_sea_level":1013.5,
      "air_temperature":17.8,
      "precipitation_amount":0.9,
      "probability_of_precipitation":0,
      "time":"26-11 12:00",
      "wind_speed":10.4
    },
    ...
  ],
  "status":"OK",
  "title":"Weather Forecast",
  "location":"Hamburg",
  "updated":"26-11 08:47"
}
```

| Item                 | Description   |
|----------------------|---|
| File Source          | highcharts\weatherforecast\datajsonfile\weather-forecast.html<br>(archive: explore_custom_pages_charts.zip)                     |
| Data Source          | External file with JSON object created in regular intervals by dzVents weather_forecast.dzVents (datafilejson)                  |
| Data Source Location | ~domoticz/www/templates/weather_forecast_data.json  |
| Data Content         | JSON Object with result array holding selective weather data over 9-DAYS. Note: <i>Not all weather data used for the chart.</i> |
| Chart Additions      | xAxis date labels first + day at 00:00 + last; Credits bottom right update + version  |

Selector Switch enabling to select a Weather Forecast Location (Weather Location Selector Switch).

|   | Idx ^ | Hardware ^     | ID ^     | Unit ^ | Name ^                    | Type ^       | SubType ^       | Data            |
|---|-------|----------------|----------|--------|---------------------------|--------------|-----------------|-----------------|
|  | 50    | VirtualSensors | 00014082 | 1      | Weather Forecast Location | Light/Switch | Selector Switch | Set Level: 20 % |

Idx: 50

Name: Weather Forecast Location

Switch Type: Selector

Switch Icon: Default

On Delay: 0 (Seconds) 0 = Disabled

Off Delay: 0 (Seconds) 0 = Disabled

Protected: ☐

Selector Style: ☒ Button set ☐ Select menu

Hide Off level: ☒

| Level | Level name                 | Order |
|-------|----------------------------|-------|
| 0     | Off                        |       |
| 10    | Hamburg,53.551086,9.993682 |       |
| 20    | Arrecife,28.9630,-13.5477  |       |
| 30    | Domburg,51.567,3.500       |       |

Level name:  Add

| Level | Action |
|-------|--------|
| 0     |        |
| 10    |        |
| 20    |        |
| 30    |        |

Description:

Save Delete Replace

Weather Forecast Location

Arrecife,28.9630,-13.5477

Weather ForecastArrecife,28.9630,-13.5477

Last Seen: 2020-11-27 09:21:06  
Type: Light/Switch, Selector Switch, Selector

Arrecife,28.9630,-13.5477

Log Edit Timers Notifications

**Notes Selector Switch**  
Selector levels contains CSV string: Location,Lat,Lon

Off level is hidden.

There are no selector actions.

The Selector Switch Widget title shows the selected level Location,Lat,Lon. If the Selector Switch name is long the text of the name & selected level override. To avoid, give the Selector Switch a shorter name or use technical abbreviation, i.e. WAFX (see below).

**Be Aware**  
If the Custom Page is not updated after selecting another location, clear the browser cache!

WAFXHamburg,53.551086,9.993682

Last Seen: 2020-11-27 13:52:16  
Type: Light/Switch, Selector Switch, Selector

Hamburg,53.551086,9.993682

Hamburg,53.551086,9.993682

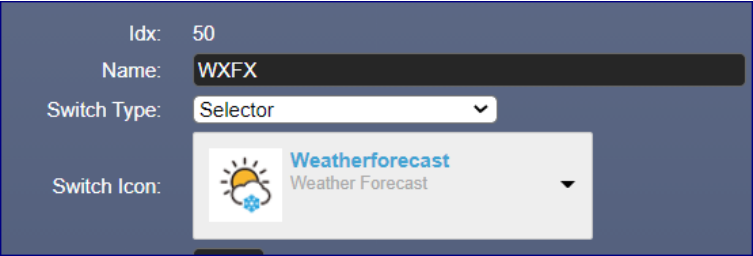
Arrecife,28.9630,-13.5477

Domburg,51.567,3.500

Custom icon for the Weather Location Selector Switch Widget (48x48px) and Dashboard (16x16px).



|                       |     |
|-----------------------|-----|
| CustomIcons           | zip |
| icons                 | txt |
| Weatherforecast       | png |
| Weatherforecast48_Off | png |
| Weatherforecast48_On  | png |



Notes

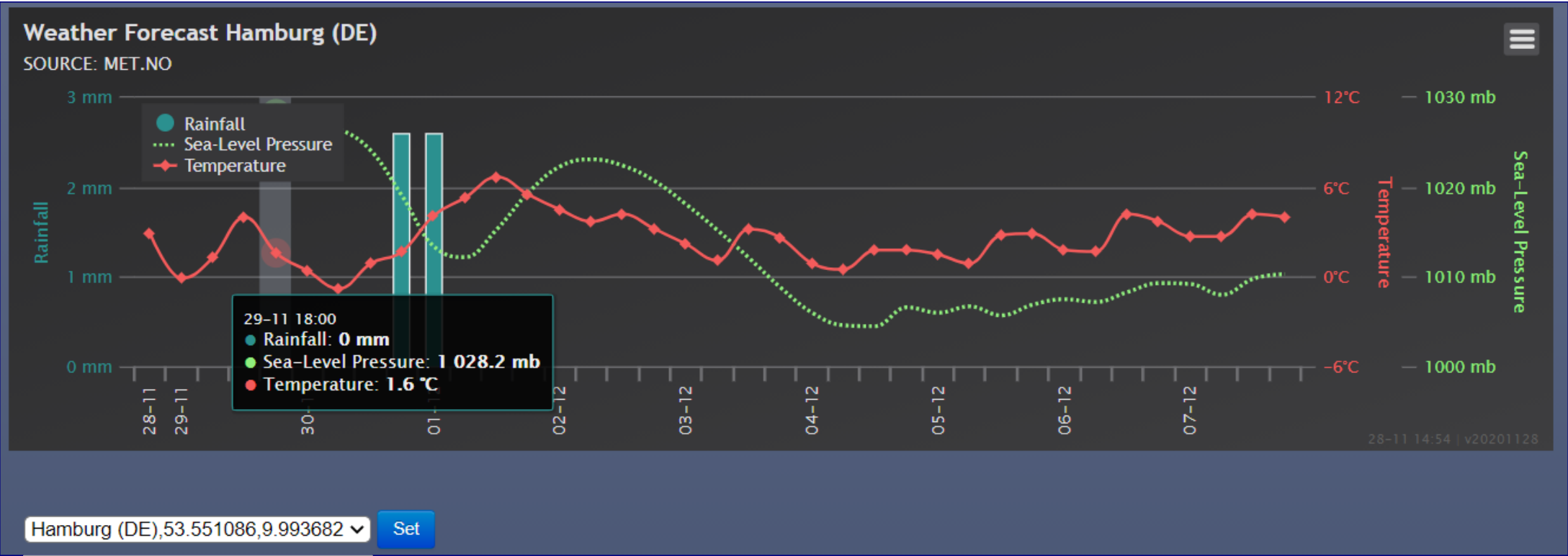
The file icons.txt contains a line entry for the icon.

There are 3 icons with size 16px (Weatherforecast.png) & 48px (Weatherforecast48\_On & Off.png)

The icon has been selected as free icon from [iconfinder](#).



Dropdown list to select & set the location.



List is populated from the Domoticz Location Selector Switch

Event trigger Selector Switch or Timer (every hour)

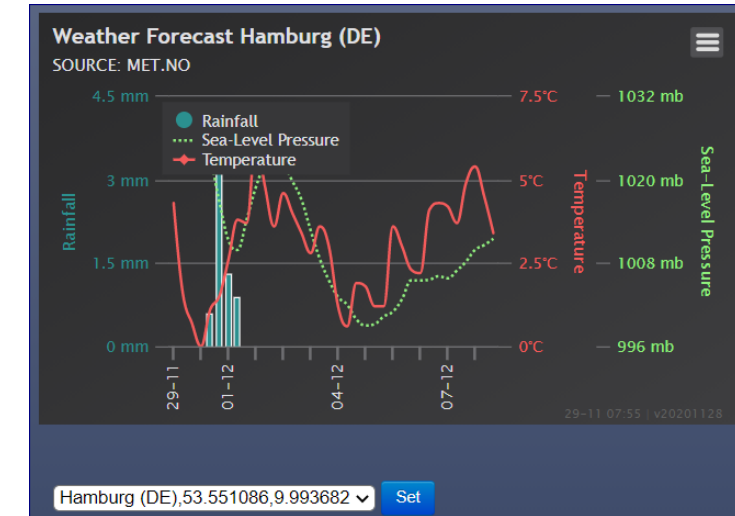
```

On Off weather_forecast
176 if triggeredItem.isTimer then
177   -- Check if there is a location selector and select actual levelName as location
178   if IDX_FORECAST_LOCATOR > 0 then
179     domoticz.data.forecastLocation = domoticz.devices(IDX_FORECAST_LOCATOR).levelName
180   else
181     -- Set the default location name,lat,lon from the domoticz settings
182     domoticz.data.forecastLocation = string.format('%s,%s,%s',
183       domoticz.settings.location.name,
184       domoticz.settings.location.latitude,
185       domoticz.settings.location.longitude)
186   end
187   requestForecast(domoticz, HTTPRESPONSE, domoticz.data.forecastLocation)
188 end
189
190 -- HTTP response trigger. check on trigger in case more http triggers used (future)
191 if triggeredItem.isHTTPResponse and triggeredItem.trigger == HTTPRESPONSE then
192   -- domoticz.log(string.format('Data: %s', triggeredItem.data))
193
194   -- Convert the http json response data to a lua table
195   local jsonData = domoticz.utils.fromJSON(triggeredItem.data)
196
197   -- Log the number of timeseries
198   domoticz.log(string.format(
199     'Timeseries Count: %d',
200     #jsonData.properties.timeseries))
201

```

**Data File**

~domoticz/www/templates/weather\_forecast\_data.json



**Custom Page**

~domoticz/www/templates/weather-forecast.html

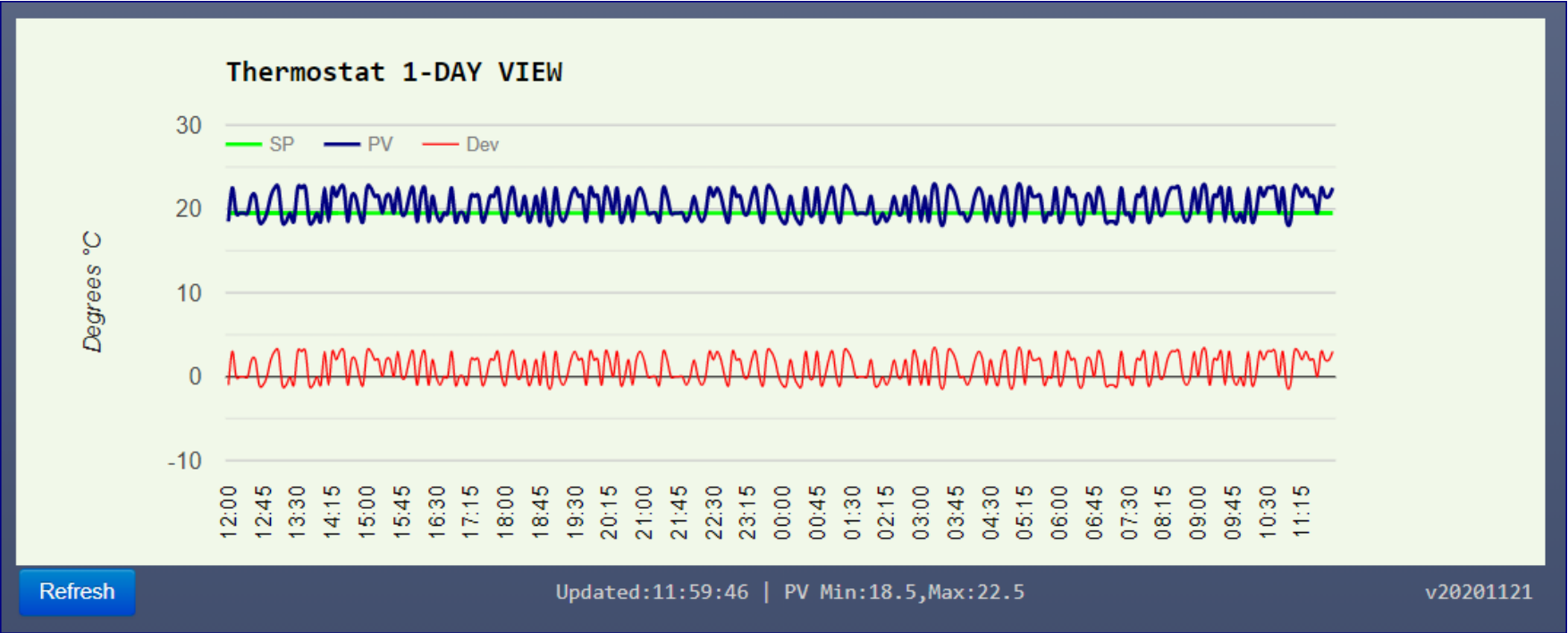
```

{
  "result" : [
    {
      "air_pressure_at_sea_level":1028.0,
      "air_temperature":4.3,
      "precipitation_amount":0.0,
      "time":"29-11 12:00",
      "probability_of_precipitation":0.0,
      "wind_speed":1.4
    },
    ...
  ],
  "status":"OK",
  "title":"Weather Forecast",
  "location":"Hamburg (DE)",
  "updated":"29-11 07:55"
}

```

# Google Charts

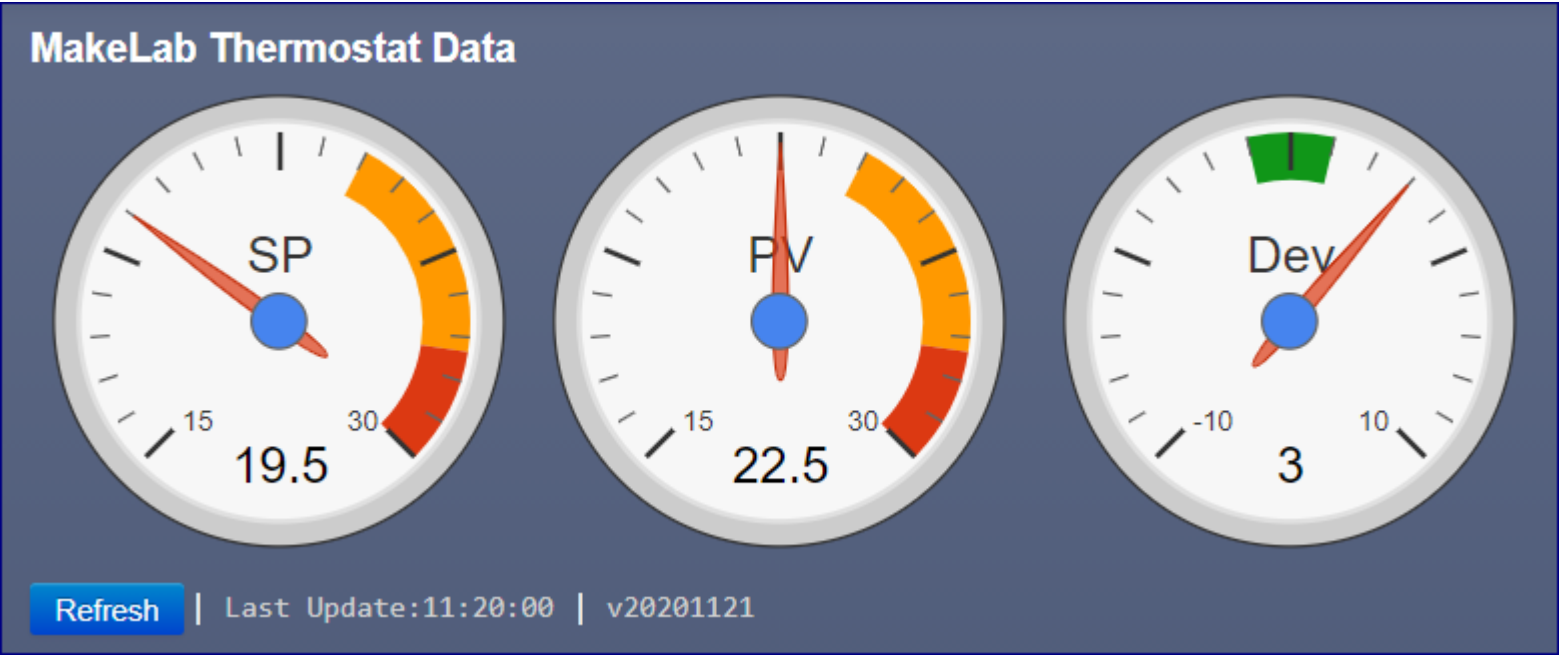
Set Point (SP) & Temperature (PV) 24 hour data (sample rate 5 mins)



```
Data Content HTTP API Response
{
  "result" : [
    {
      "Data" : "0913;19.5;21.5",
      "Date" : "2020-11-05 09:13:00",
      "User" : "",
      "idx" : "4"
    },
    ... ],
  "status" : "OK",
  "title" : "TextLog"
}
```

| Item                 | Description   |
|----------------------|---|
| File Source          | googlecharts\linechart\datatextcsv\thermostat-1dayview.html<br>(archive: explore_custom_pages_charts.zip) |
| Data Source          | Domoticz virtual sensor Text Device History Log with 1 day setting (datatextcsv)                          |
| Data Source Location | Domoticz HTTP API Request: <i>http://domoticz-ip:port/json.htm?type=textlog&amp;idx=IDX</i> Text Device   |
| Data Content         | CSV string: HHMM;SP;PV from the HTTP API Response key Data  |
| Chart Additions      | Table footer with refresh button, update & PV min/max/avg and version information                         |

Set Point (SP), Temperature (PV) & Deviation (Dev)

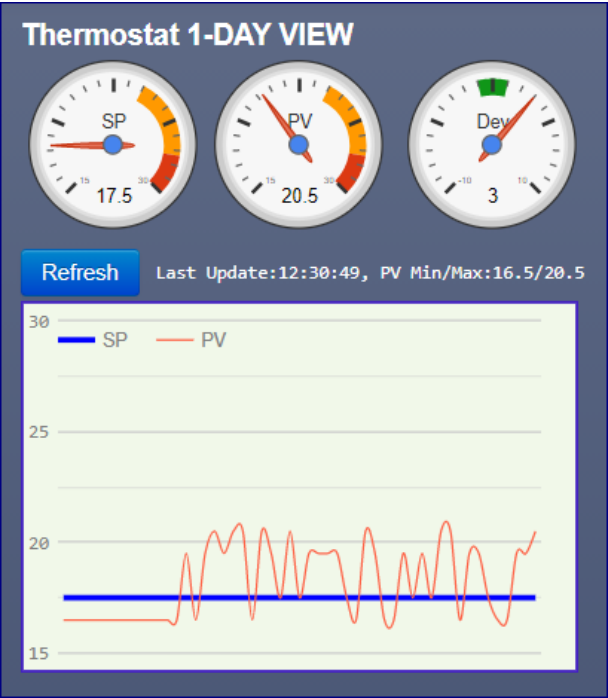


Data Content HTTP API Response

```
{
  "app_version" : "2020.2 (build 12554)",
  "result" : [
    {
      ...
      "Data" : "0913;21.0;24.0",
      "Name" : "MakeLab Thermostat Data",
      ...,
      "idx" : "42"
    }
  ],
  "status" : "OK",
  "title" : "Devices"
}
```

| Item                 | Description  |
|----------------------|--|
| File Source          | googlecharts\gaugeschart\datahttprid\thermostat_dashboard.html<br>(archive: explore_custom_pages_charts.zip) |
| Data Source          | Domoticz virtual sensor Text Device Status (datahttprid)   |
| Data Source Location | Domoticz HTTP API Request: <i>http://domoticz-ip:port/json.htm?type=devices&amp;rid=IDX</i> Text Device      |
| Data Content         | CSV string: HHMM;SP;PV from the HTTP API Response key Data   |
| Chart Additions      | Chart device name; Table footer with refresh button, update & PV min/max/avg and version information         |

Set Point (SP), Temperature (PV) & Deviation (Dev) & line chart 24 hours data (sample rate 5 mins)



Data Content JSON File

```
{
  "result" : [
    {"pv":22.0,"sp":22.0,"time":"11:17"},
    {"pv":25.0,"sp":22.0,"time":"11:16"},
    ...],
    "status":"OK",
    "title":"Thermostat Data"
  }
```

| Item                 | Description  |
|----------------------|--|
| File Source          | googlecharts\gaugeslinechart\datajsonfile\thermostat_1dayview.html<br>(archive: explore_custom_pages_charts.zip) |
| Data Source          | External file with JSON object created in regular intervals by dzVents using persistent data (datajsonfile)      |
| Data Source Location | ~domoticz/www/templates/thermostat_1dayview_data.json  |
| Data Content         | JSON array “result” with JSON data in key result.Data  |
| Chart Additions      | Table with row gauges; row refresh button + info; row table 1 day view   |

# Automation Scripts dzVents

# Automation Scripts dzVents

```
On Off thermostat_data_textcsv

-- Idx of the devices
local IDX_SP = 30 -- Thermostat Temperature SetPoint (SP); Device: Thermostat, SetPoint
local IDX_PV = 31 -- Thermostat Temperature Process Value (PV); Device: Temp, LaCrosse TX3
local IDX_TS = 42 -- Text device holding the data as CSV string; Device: General, Text

return
{
  on =
  {
    timer =
    {
      'every 5 minutes at 00:00-23:59',
      -- 'every minute',
    },
  },
  logging =
  {
    level = domoticz.LOG_INFO,
    marker = 'THERMOSTATDATATEXTCSV',
  },
  execute = function(domoticz)
    -- Store the new data in the virtual text sensor as CSV string (max length 200)
    -- Content is: hhmm,sp,pv
    local data = ("%s%s;%.1f;%.1f"):format(
      string.format("%02d", domoticz.time.hour),
      string.format("%02d", domoticz.time.minutes),
      domoticz.utils.round(domoticz.devices(IDX_SP).setPoint, 1),
      domoticz.utils.round(domoticz.devices(IDX_PV).temperature, 1)
    )
    -- Log the value & update text device
    domoticz.log(data)
    domoticz.devices(IDX_TS).updateText(data);
  end
}

On Off thermostat_data_textjson

-- Idx of the devices
local IDX_SP = 30 -- Thermostat Temperature SetPoint (SP); Device: Thermostat, SetPoint
local IDX_PV = 31 -- Thermostat Temperature Process Value (PV); Device: Temp, LaCrosse TX3
local IDX_JSON = 43 -- Text device holding the data JSON string; Device: General, Text

return
{
  on =
  {
    timer =
    {
      'every 5 minutes at 00:00-23:59',
      -- 'every minute',
    },
  },
  logging =
  {
    level = domoticz.LOG_INFO,
    marker = 'THERMOSTATDATATEXJSON',
  },
  execute = function(domoticz)
    -- Store the new data in the virtual text sensor as JSON object (max length 200)
    local jsonData = (
      '{"timestamp": "%s", "devices": [{"name": "%s", "data": %.1f}, {"name": "%s", "data": %.1f}]}':format(
        string.format("%02d", domoticz.time.hour),
        string.format("%02d", domoticz.time.minutes),
        domoticz.devices(IDX_SP).name,
        domoticz.utils.round(domoticz.devices(IDX_SP).setPoint, 1),
        domoticz.devices(IDX_PV).name,
        domoticz.utils.round(domoticz.devices(IDX_PV).temperature, 1)
      )
    )
    -- Log and Update
    domoticz.log(jsonData)
    domoticz.devices(IDX_JSON).updateText(jsonData)
  end
}
```

2020-11-22 09:35:10 🌞▲08:01 ▼16:14 Room: All

Temperature Sensors

MakeLab Temperature 22.5° C

Utility Sensors

MakeLab Thermostat Setpoint 19.5° C

MakeLab Thermostat Data 0935;19.5;21.5

MakeLab Thermostat JSON {"timestamp": "1845", "devices": [{"name": "MakeLab Thermostat Setpoint", "data": 19.5}, {"name": "MakeLab Temperature", "data": 21.5}]}



# dzVents - CSV String

**Example Text Device Value CSV String HHMM;Value1;ValueN**

0913;18.5;21.5

**Example snippet dzVents timer trigger to create the CSV string & update the text device**

local IDX\_SP = 30 -- Thermostat Temperature SetPoint (SP); Device: Thermostat, SetPoint

local IDX\_PV = 31 -- Thermostat Temperature Process Value (PV); Device: Temp, LaCrosse TX3

local IDX\_TS = 42 -- Text device holding the data as CSV string; Device: General, Text

return

{

on = {

timer = {

'every 5 minutes at 00:00-23:59'

},

},

logging = {

level = domoticz.LOG\_INFO, marker = 'THERMOSTATDATA',

},

execute = function(domoticz)

-- Store the new data in the virtual text sensor as CSV string (max length 200): hhmm,sp,pv

domoticz.devices(IDX\_TS).updateText(("%%s%%s;%.1f;%.1f"):format(

string.format("%02d", domoticz.time.hour),

string.format("%02d", domoticz.time.minutes),

domoticz.utils.round(domoticz.devices(IDX\_SP).setPoint, 1),

domoticz.utils.round(domoticz.devices(IDX\_PV).temperature, 1)

));

-- Log the value

domoticz.log(domoticz.devices(IDX\_TS).text)

end

}

| Date                |                |
|---------------------|----------------|
| 2020-11-22 09:10:00 | 0910;19.5;22.5 |
| 2020-11-22 09:05:00 | 0905;19.5;18.5 |
| 2020-11-22 09:00:00 | 0900;19.5;18.5 |

# dzVents - JSON Object

**Example Text Device JSON Object** - each datapoint has a JSON object with in this case 2 devices

```
{
  "result" :
    [{"Data":"SEE BELOW","Date":"2020-11-13 18:00:00","User":"","idx":"1999"}, ... ],
  "status":"OK","title":"TextLog"
}
```

The Data key is a JSON string:

```
"Data" : "{
  "timestamp":"1800","devices":[
    {"name":"MakeLab Thermostat Setpoint", "data":17.5},
    {"name":"MakeLab Temperature", "data":16.5}]
}"
```

**Example snippet dzVents timer trigger to create the JSON object & update the text device**

```
local IDX_SP = 30    -- Thermostat Temperature SetPoint (SP); Device: Thermostat, SetPoint
local IDX_PV = 31    -- Thermostat Temperature Process Value (PV); Device: Temp, LaCrosse TX3
local IDX_JSON = 43  -- Text device holding the data JSON string; Device: General, Text

local jsonData = (
  '{"timestamp":"%s%s", "devices":[{"name":"%s", "data":%.1f}, {"name":"%s", "data":%.1f}]}' :format(
    string.format("%02d", domoticz.time.hour),
    string.format("%02d", domoticz.time.minutes),
    domoticz.devices(IDX_SP).name,
    domoticz.utils.round(domoticz.devices(IDX_SP).setPoint, 1),
    domoticz.devices(IDX_PV).name,
    domoticz.utils.round(domoticz.devices(IDX_PV).temperature, 1)
  )
)
domoticz.devices(IDX_JSON).updateText(("s"):format(jsonData))
```

| Date                | Data   |
|---------------------|--|
| 2020-11-21 18:45:00 | {"timestamp":"1845", "devices":[{"name":"MakeLab Thermostat Setpoint", "data":19.5}, {"name":"MakeLab Temperature", "data":21.5}]} |
| 2020-11-21 18:40:00 | {"timestamp":"1840", "devices":[{"name":"MakeLab Thermostat Setpoint", "data":19.5}, {"name":"MakeLab Temperature", "data":22.5}]} |
| 2020-11-21 18:35:00 | {"timestamp":"1835", "devices":[{"name":"MakeLab Thermostat Setpoint", "data":19.5}, {"name":"MakeLab Temperature", "data":22.5}]} |