**mercedesme2020**

MercedesME platform as a Custom Component for Home Assistant.

IMPORTANT:

* Please login once in the MercedesME IOS or Android app before you install this component. (For North America, the app name is Mercedes Me Connect)
* Tested Countries: AT, AU, BE, CA, CH, DE, DK, ES, FI, FR, IT, IR, NL, NO, PT, SE, UK, US
* North America: For Cars 2019 or newer only
* Asia-Pacific support is a very early version

**Installation**

* First: This is not a Home Assistant Add-On. It's a custom component.
* There are two ways to install. First you can download the folder custom\_component and copy it into your Home-Assistant config folder. Second option is to install HACS (Home Assistant Custom Component Store) and select "MercedesME 2020" from the Integrations catalog.
* [How to install a custom component?](https://www.google.com/search?q=how+to+install+custom+components+home+assistant)
* [How to install HACS?](https://hacs.xyz/docs/installation/prerequisites)

**Configuration**

Use the "Add Integration" in Home Assistant and select "MercedesME 2020".

Use your MB-login email address. Your will receive a 6-digit code via email (valid for 15min).

**Optional configuration values**

See Options dialog in the Integration under Home-Assistant/Configuration/Integration.

Excluded Cars: comma-separated list of VINs.

PIN: Security PIN to execute special services. Please use your MB mobile app to setup

Disable Capability Check: By default the component checks the capabilities of a car. Active this option to disable the capability check. (For North America)

Debug Save Messages: Enable this option to save all relevant received message into the messages folder of the component

**Available components**

Depends on your own car or purchased Mercedes Benz licenses.

**Binary Sensors**

* warningwashwater
* warningcoolantlevellow
* warningbrakefluid
* warningenginelight
* attributes:
* warningbrakefluid, warningwashwater, warningcoolantlevellow, warninglowbattery
* parkbrakestatus
* attributes:
* preWarningBrakeLiningWear
* tirewarninglamp
* attributes:
* tirepressureRearLeft, tirepressureRearRight, tirepressureFrontRight, tirepressureFrontLeft, tireMarkerFrontRight, tireMarkerFrontLeft,tireMarkerRearLeft, tireMarkerRearRight, tirewarningsrdk, tirewarningsprw, tireTemperatureRearLeft, tireTemperatureFrontRight,
* tireTemperatureRearRight, tireTemperatureFrontLeft
* windowsClosed
* attributes:
* windowstatusrearleft, windowstatusrearright, windowstatusfrontright, windowstatusfrontleft
* remoteStartActive
* engineState

**Device Tracker**

attributes:

positionHeading

**Locks**

* lock

PIN setup in MB App is required. If the pin is not set in the integration options then the lock asks for the PIN.

**Sensors**

* lock
* attributes:
* decklidstatus, doorStatusOverall, doorLockStatusOverall, doorlockstatusgas, doorlockstatusvehicle, doorlockstatusfrontleft,doorlockstatusfrontright, doorlockstatusrearright, doorlockstatusrearleft, doorlockstatusdecklid, doorstatusrearleft, doorstatusfrontright, doorstatusrearright, doorstatusfrontleft, rooftopstatus, sunroofstatus, engineHoodStatus

Internal value: doorlockstatusvehicle

Values: 0: vehicle unlocked 1: vehicle internal locked 2: vehicle external locked 3: vehicle selective unlocked

* Fuel Level (%)
* attributes:
* tankLevelAdBlue
* odometer
* attributes:
* distanceReset, distanceStart, averageSpeedReset, averageSpeedStart, distanceZEReset, drivenTimeZEReset, drivenTimeReset, drivenTimeStart, ecoscoretotal, ecoscorefreewhl, ecoscorebonusrange, ecoscoreconst, ecoscoreaccel, gasconsumptionstart, gasconsumptionreset, gasTankRange, gasTankLevel, liquidconsumptionstart, liquidconsumptionreset, liquidRangeSkipIndication, rangeliquid, serviceintervaldays, tanklevelpercent, tankReserveLamp, batteryState, tankLevelAdBlue
* Range Electric
* attributes:
* rangeelectric, chargingstatus, chargingPower, distanceElectricalReset, distanceElectricalStart, ecoElectricBatteryTemperature,
* electricconsumptionstart, electricconsumptionreset, endofchargetime, precondActive, precondNow, maxrange, selectedChargeProgram, soc
* Starter Battery State
* Internal Name: starterBatteryState
* Values Description\_short Description\_long
* "0" "green" "Vehicle ok"
* "1" "yellow" "Battery partly charged"
* "2" "red" "Vehicle not available"
* "3" "serviceDisabled" "Remote service disabled"
* "4" "vehicleNotAvalable" "Vehicle no longer available"
* State of Charge (soc)
* Internal Name: soc
* State of charge (SoC) is the level of charge of an electric battery relative to its capacity. The units of SoC are percentage points (0% = empty; 100% = full).
* attributes:
* maxSocLowerLimit, maxSoc, chargingPower
* Ignition state
* Internal Name: ignitionstate
* Values Description\_short Description\_long
* "0" "lock" "Ignition lock"
* "1" "off" "Ignition off"
* "2" "accessory" "Ignition accessory"
* "4" "on" "Ignition on"
* "5" "start" "Ignition start"
* Oil Level in percent
* attributes:
* Aux Heat Status
* Internal Name: auxheatstatus
* Values Description
* "0" inactive
* "1" normal heating
* "2" normal ventilation
* "3" manual heating
* "4" post heating
* "5" post ventilation
* "6" auto heating
* attributes:
* auxheattime1, auxheattime2, auxheattime3, auxheattimeselection, auxheatActive, auxheatwarnings, auxheattime2: '00:00'

**Diagnostic Sensors**

[Diagnostic sensors](https://www.home-assistant.io/blog/2021/11/03/release-202111/#entity-categorization) are hidden by default, check the devices page to see the current values

* Car
* attributes:
* full\_update\_messages\_received, partital\_update\_messages\_received, last\_message\_received, last\_command\_type, last\_command\_state, last\_command\_error\_code, last\_command\_error\_message
* RCP\_Features

Sensor shows true if extended configuration like interior lighting is available. This feature requires a reauthentication in case you used a version <0.6 before (We need some more permissions...). Shows False in case reauthentication has not happened or the feature is not available for your car.

attributes:

rcp\_supported\_settings (List of all remote configuration options, I'll implement them step by step as services or buttons)

**Services**

Some services require that the security PIN is created in your mobile Android/IOS app. Please store the pin to the options-dialog of the integration

* refresh\_access\_token: Refresh the API access token
* auxheat\_start: Start the auxiliary heating of a car defined by a vin.
* auxheat\_stop: Stop the auxiliary heating of a car defined by a vin.
* battery\_max\_soc\_configure: Configure the maximum value for the state of charge of the HV battery of a car defined by a vin.
* doors\_unlock: Unlock a car defined by a vin. PIN required.
* doors\_lock: Lock a car defined by a vin.
* engine\_start: Start the engine of a car defined by a vin. PIN required.
* engine\_stop: Stop the engine of a car defined by a vin.
* preheat\_start: Start the preheating of a zero emission car defined by a vin.
* preheat\_start\_departure\_time: Start the preheating of a zero emission car defined by a vin and the departure time in minutes since midnight
* preheat\_stop: Stop the preheating of a zero emission car defined by a vin.
* send\_route: Send a route to a car defined by a vin.
* sigpos\_start: Start light signaling of a car defined by a vin.
* sunroof\_open: Open the sunroof of a car defined by a vin. PIN required.
* sunroof\_close: Close the sunroof of a car defined by a vin.
* windows\_open: Open the windows of a car defined by a vin. PIN required.
* windows\_close: Close the windows of a car defined by a vin.

**Switches**

* AuxHeat - Start/Stop the auxiliary heating of the car

**Logging**

Set the logging to debug with the following settings in case of problems.

logger:

default: warn

logs:

custom\_components.mbapi2020: debug

**Open Items**

* Add missing Sensors (Theft)

**Useful links**

* [Forum post](https://community.home-assistant.io/t/mercedes-me-component/41911/520)

#1 add sensors

Sensors.yaml

## this yaml file creates seperate sensors in HA for the attributes derrived from the Benz sensors. Credits to Rene Nulsch for

## creating this awesome MercedesMe integration!

## I am not a programmer, this is all derrived from everywhere around the forum, re-use of images, inspiration and code.

## For me, having a splitted Home Assistant config I created this yaml file, named it mercedessensor.yaml and placed it in

## my sensors directory within home assistant

## I guess it can be part of your configuration file as well.....

- platform: template

  sensors:

    car\_tire\_pressure\_rear\_left:

      friendly\_name: Tire pressure Rear Left

      value\_template: '{{ states.binary\_sensor.dh10126\_tire\_warning.attributes.tirepressureRearLeft }}'

    car\_tire\_pressure\_rear\_right:

      friendly\_name: Tire pressure Rear Right

      value\_template: '{{ states.binary\_sensor.dh10126\_tire\_warning.attributes.tirepressureRearRight }}'

    car\_tire\_pressure\_front\_left:

      friendly\_name: Tire pressure Front Left

      value\_template: '{{ states.binary\_sensor.dh10126\_tire\_warning.attributes.tirepressureFrontLeft }}'

    car\_tire\_pressure\_front\_right:

      friendly\_name: Tire pressure Front Right

      value\_template: '{{ states.binary\_sensor.dh10126\_tire\_warning.attributes.tirepressureFrontRight }}'

    car\_lock\_front\_right:

      friendly\_name: Lock Front Right

      value\_template: >-

        {% if is\_state\_attr('sensor.dh10126\_lock', 'doorlockstatusfrontright', false)%}

            Closed

        {% else %}

            Open

        {% endif %}

      icon\_template: >

        {% if is\_state\_attr('sensor.dh10126\_lock', 'doorlockstatusfrontright', false)%}

          mdi:lock-outline

        {% else %}

          mdi:lock-open-variant-outline

        {% endif %}

    car\_lock\_front\_left:

      friendly\_name: Lock Front Left

      value\_template: >-

        {% if is\_state\_attr('sensor.dh10126\_lock', 'doorlockstatusfrontleft', false)%}

            Closed

        {% else %}

            Open

        {% endif %}

      icon\_template: >

        {% if is\_state\_attr('sensor.dh10126\_lock', 'doorlockstatusfrontleft', false)%}

          mdi:lock-outline

        {% else %}

          mdi:lock-open-variant-outline

        {% endif %}

    car\_lock\_rear\_right:

      friendly\_name: Lock Rear Right

      value\_template: >-

        {% if is\_state\_attr('sensor.dh10126\_lock', 'doorlockstatusrearright', false)%}

            Closed

        {% else %}

            Open

        {% endif %}

      icon\_template: >

        {% if is\_state\_attr('sensor.dh10126\_lock', 'doorlockstatusrearright', false)%}

          mdi:lock-outline

        {% else %}

          mdi:lock-open-variant-outline

        {% endif %}

    car\_lock\_rear\_left:

      friendly\_name: Lock Rear Left

      value\_template: >-

        {% if is\_state\_attr('sensor.dh10126\_lock', 'doorlockstatusrearleft', false)%}

            Closed

        {% else %}

            Open

        {% endif %}

      icon\_template: >

        {% if is\_state\_attr('sensor.dh10126\_lock', 'doorlockstatusrearleft', false)%}

          mdi:lock-outline

        {% else %}

          mdi:lock-open-variant-outline

        {% endif %}

    car\_lock\_trunk:

      friendly\_name: Lock trunk

      value\_template: >-

        {% if is\_state\_attr('sensor.dh10126\_lock', 'decklidstatus', false)%}

            Closed

        {% else %}

            Open

        {% endif %}

      icon\_template: >

        {% if is\_state\_attr('sensor.dh10126\_lock', 'decklidstatus', false)%}

          mdi:lock-outline

        {% else %}

          mdi:lock-open-variant-outline

        {% endif %}

    car\_lock\_hood:

      friendly\_name: Lock hood

      value\_template: >-

        {% if is\_state\_attr('sensor.dh10126\_lock', 'hoodStateRollup', false)%}

            Closed

        {% else %}

            Open

        {% endif %}

      icon\_template: >

        {% if is\_state\_attr('sensor.dh10126\_lock', 'hoodStateRollup', false)%}

          mdi:lock-outline

        {% else %}

          mdi:lock-open-variant-outline

        {% endif %}

    car\_window\_front\_left:

      friendly\_name: Window Front Left

      value\_template: >-

        {% if is\_state\_attr('binary\_sensor.dh10126\_windows\_closed', 'windowstatusfrontleft', '2')%}

            Closed

        {% else %}

            Open

        {% endif %}

      icon\_template: >

        {% if is\_state\_attr('binary\_sensor.dh10126\_windows\_closed', 'windowstatusfrontleft', '2')%}

          mdi:window-closed

        {% else %}

          mdi:window-open

        {% endif %}

    car\_window\_front\_right:

      friendly\_name: Window Front Right

      value\_template: >-

        {% if is\_state\_attr('binary\_sensor.dh10126\_windows\_closed', 'windowstatusfrontright', '2')%}

            Closed

        {% else %}

            Open

        {% endif %}

      icon\_template: >

        {% if is\_state\_attr('binary\_sensor.dh10126\_windows\_closed', 'windowstatusfrontright', '2')%}

          mdi:window-closed

        {% else %}

          mdi:window-open

        {% endif %}

    car\_window\_rear\_left:

      friendly\_name: Window Rear Left

      value\_template: >-

        {% if is\_state\_attr('binary\_sensor.dh10126\_windows\_closed', 'windowstatusrearleft', '2')%}

            Closed

        {% else %}

            Open

        {% endif %}

      icon\_template: >

        {% if is\_state\_attr('binary\_sensor.dh10126\_windows\_closed', 'windowstatusrearleft', '2')%}

          mdi:window-closed

        {% else %}

          mdi:window-open

        {% endif %}

    car\_window\_rear\_right:

      friendly\_name: Window Rear Right

      value\_template: >-

        {% if is\_state\_attr('binary\_sensor.dh10126\_windows\_closed', 'windowstatusrearright', '2')%}

            Closed

        {% else %}

            Open

        {% endif %}

      icon\_template: >

        {% if is\_state\_attr('binary\_sensor.dh10126\_windows\_closed', 'windowstatusrearright', '2')%}

          mdi:window-closed

        {% else %}

          mdi:window-open

        {% endif %}

    car\_window\_sunroof:

        friendly\_name: Window Sunroof

        value\_template: >-

          {% if is\_state\_attr('sensor.dh10126\_lock', 'sunroofstatus', '0')%}

            Closed

          {% else %}

            Open

          {% endif %}

        icon\_template: >

          {% if is\_state\_attr('sensor.dh10126\_lock', 'sunroofstatus', '0')%}

            mdi:checkbox-blank-circle-outline

          {% else %}

            mdi:checkbox-marked-circle-outline

          {% endif %}

#2 upload this picture to your www directory of HA. I made it transparant.



#3 next I used the following yaml in the picture elements card.

*## This is the card yaml, based on a picture-elements card. just create one in yourlovelace dashboard and copy and past in your card.*

elements:

- entity: sensor.dh10126\_fuel\_level

prefix: ''

style:

transform: translate(-50%, -50%) scale(1.3, 1.3)

color: lightgrey

left: 15%

top: 17%

type: state-label

- entity: sensor.dh10126\_odometer

prefix: ' '

style:

transform: translate(-50%, -50%) scale(1.3, 1.3)

color: lightgrey

left: 39%

top: 17%

type: state-label

- entity: sensor.car\_window\_sunroof

style:

transform: translate(-50%, -50%) scale(0.7, 0.7)

'--paper-item-icon-color': null

left: 57%

top: 17.5%

type: state-icon

- entity: binary\_sensor.dh10126\_tire\_warning

prefix: ''

style:

transform: translate(-50%, -50%) scale(0.7, 0.7)

color: '#FFFFFF'

left: 66.5%

top: 17.5%

type: state-icon

- entity: binary\_sensor.dh10126\_low\_brake\_fluid\_warning

prefix: ''

style:

transform: translate(-50%, -50%) scale(0.7, 0.7)

color: '#FFFFFF'

left: 76%

top: 17.5%

type: state-icon

- entity: binary\_sensor.dh10126\_low\_coolant\_level\_warning

prefix: ''

style:

transform: translate(-50%, -50%) scale(0.7, 0.7)

color: '#FFFFFF'

left: 85.5%

top: 17.5%

type: state-icon

- entity: binary\_sensor.dh10126\_low\_wash\_water\_warning

prefix: ''

style:

transform: translate(-50%, -50%) scale(0.7, 0.7)

color: '#FFFFFF'

left: 95%

top: 17.5%

type: state-icon

- entity: sensor.car\_tire\_pressure\_front\_right

style:

transform: translate(-50%, -50%) scale(0.8, 0.8)

color: lightgrey

left: 38%

top: 32%

type: state-label

- entity: sensor.car\_tire\_pressure\_rear\_right

style:

transform: translate(-50%, -50%) scale(0.8, 0.8)

color: lightgrey

left: 84%

top: 32%

type: state-label

- entity: sensor.car\_tire\_pressure\_front\_left

style:

transform: translate(-50%, -50%) scale(0.7, 0.7)

color: lightgrey

left: 38%

top: 90%

type: state-label

- entity: sensor.car\_tire\_pressure\_rear\_left

style:

transform: translate(-50%, -50%) scale(0.8, 0.8)

color: lightgrey

left: 84%

top: 90%

type: state-label

- entity: sensor.car\_lock\_front\_right

style:

'--paper-item-icon-color': white

transform: translate(-50%, -50%) scale(0.7, 0.7)

left: 61%

top: 38%

type: state-icon

- entity: sensor.car\_lock\_rear\_right

style:

'--paper-item-icon-color': white

transform: translate(-50%, -50%) scale(0.7, 0.7)

left: 68%

top: 38%

type: state-icon

- entity: sensor.car\_lock\_front\_left

style:

'--paper-item-icon-color': white

transform: translate(-50%, -50%) scale(0.7, 0.7)

left: 61%

top: 83%

type: state-icon

- entity: sensor.car\_lock\_rear\_left

style:

'--paper-item-icon-color': white

transform: translate(-50%, -50%) scale(0.7, 0.7)

left: 68%

top: 83%

type: state-icon

- entity: sensor.car\_lock\_trunk

style:

'--paper-item-icon-color': white

transform: translate(-50%, -50%) scale(0.7, 0.7)

left: 95%

top: 60%

type: state-icon

- entity: sensor.car\_window\_front\_right

style:

'--paper-item-icon-color': lightgrey

transform: translate(-50%, -50%) scale(0.7, 0.7)

left: 56%

top: 31%

type: state-icon

- entity: sensor.car\_window\_rear\_right

style:

'--paper-item-icon-color': lightgrey

transform: translate(-50%, -50%) scale(0.7, 0.7)

left: 73%

top: 31%

type: state-icon

- entity: sensor.car\_window\_front\_left

style:

'--paper-item-icon-color': lightgrey

transform: translate(-50%, -50%) scale(0.7, 0.7)

left: 56%

top: 90%

type: state-icon

- entity: sensor.car\_window\_rear\_left

style:

'--paper-item-icon-color': lightgrey

transform: translate(-50%, -50%) scale(0.7, 0.7)

left: 73%

top: 90%

type: state-icon

- entity: binary\_sensor.dh10126\_park\_brake\_status

prefix: ''

style:

transform: translate(-50%, -50%) scale(0.6, 0.6)

color: '#FFFFFF'

left: 11%

top: 42%

type: state-icon

- entity: binary\_sensor.dh10126\_windows\_closed

prefix: ''

style:

transform: translate(-50%, -50%) scale(0.6, 0.6)

color: '#FFFFFF'

left: 11%

top: 52%

type: state-icon

- entity: sensor.dh10126\_lock

prefix: ''

style:

color: '#FFFFFF'

left: 11%

top: 64%

type: state-label

- entity: device\_tracker.dh10126\_device\_tracker

prefix: ''

style:

color: lightgrey

left: 12%

top: 77%

type: state-label

image: /local/pictures/mercedes/mercnew.png

type: picture-elements