

OpenHAB2  
INFLUX database  
RS485 Interface



#### BINDINGS:

Modbus Binding (binding-modbus - 2.4.0)

#### TRANSFORMATIONS:

Javascript Transformation (transformation-javascript - 2.4.0)

#### PERSISTENCE:

InfluxDB (v 1.0) Persistence (persistence-influxdb - 1.13.0)

#### Sensorer:

<https://www.zigza.dk/0022-M> 0022-M ~ CO2 / TEMPERATUR SENSOR (Sensor 1)

<https://www.zigza.dk/0021-M> 0021-M ~ FUGT / TEMPERATUR SENSOR (Sensor 2)

#### Side:

- [1. Screen shoot sensor 1](#)
- [2. Screen shoot sensor 2](#)
- 
- [4. /etc/openhab2/things/modbus.things](#)
- [5. /etc/openhab2/items/modbus.items](#)
- [6. /etc/openhab2/transform/devide10.js](#)
- [6. /etc/openhab2/transform/multiply10.js](#)
- [6. /etc/openhab2/persistence/influxdb,persist](#)
- [7. /etc/openhab2/sitemaps/zigza.sitemap](#)

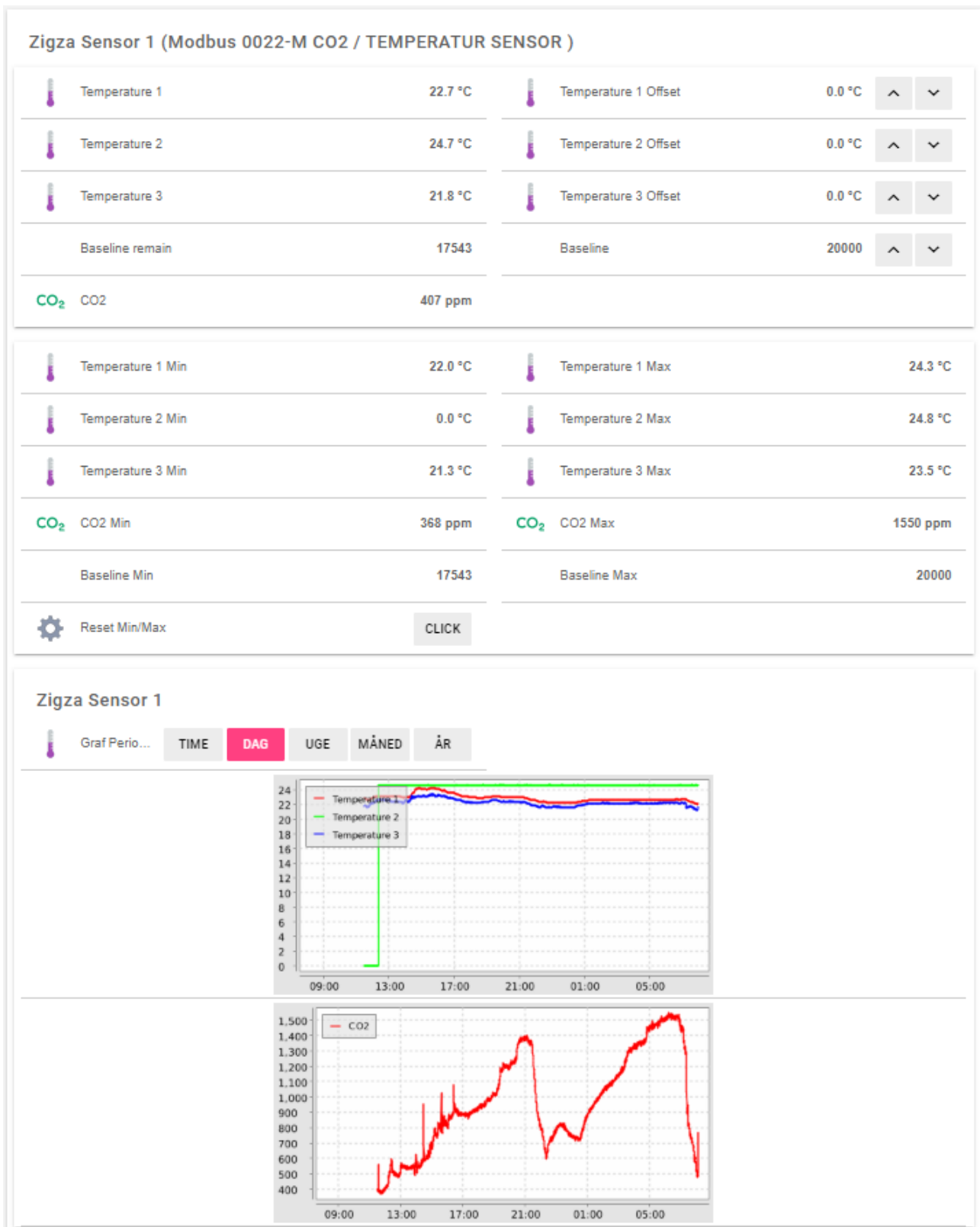
0022-M



0021-M






















## Sensor 1



## Sensor 2

### Zigza Sensor 2 (Modbus 0021-M FUGT / TEMPERATUR SENSOR)

 Temperature 1	20.7 °C	 Temperature 1 Offset	0.0 °C	<input type="button" value="^"/>	<input type="button" value="v"/>
 Temperature 2	24.5 °C	 Temperature 2 Offset	0.0 °C	<input type="button" value="^"/>	<input type="button" value="v"/>
 Temperature 3	21.4 °C	 Temperature 3 Offset	0.0 °C	<input type="button" value="^"/>	<input type="button" value="v"/>
 Humidity 1	47.2 %	 Dew Point 1	9.1 °C		
 Temperature 1 Min	20.6 °C	 Temperature 1 Max	22.5 °C		
 Temperature 2 Min	24.4 °C	 Temperature 2 Max	24.6 °C		
 Temperature 3 Min	21.3 °C	 Temperature 3 Max	23.5 °C		
 Humidity 1 Min	46.7 %	 Humidity 1 Max	71.7 %		
 Dew Point 1 Min	8.9 °C	 Dew Point 1 Max	16.3 °C		
 Reset Min/Max				<input type="button" value="CLICK"/>	



## /etc/openhab2/things/modbus.things

```
Bridge modbus:serial:ZigzaSensor_1 [ port="/dev/ttyUSB0", id=200, baud=9600, stopBits="1.0", parity="none", dataBits=8, encoding="rtu" ]
{
  Bridge poller SensorValue [ start=000, length=19, refresh=30000, type="holding" ]
  {
    Thing data Temp1 [ readStart="000", readValueType="int16", readTransform="JS(divide10.js)", updateUnchangedValuesEveryMillis=0 ]
    Thing data CO2 [ readStart="001", readValueType="int16", updateUnchangedValuesEveryMillis=0 ]
    Thing data Baseline [ readStart="002", readValueType="int16", updateUnchangedValuesEveryMillis=0 ]
    Thing data Temp2 [ readStart="003", readValueType="int16", readTransform="JS(divide10.js)", updateUnchangedValuesEveryMillis=0 ]
    Thing data Temp3 [ readStart="004", readValueType="int16", readTransform="JS(divide10.js)", updateUnchangedValuesEveryMillis=0 ]
    Thing data Temp1_Min [ readStart="009", readValueType="int16", readTransform="JS(divide10.js)", updateUnchangedValuesEveryMillis=0 ]
    Thing data Temp1_Max [ readStart="010", readValueType="int16", readTransform="JS(divide10.js)", updateUnchangedValuesEveryMillis=0 ]
    Thing data CO2_Min [ readStart="011", readValueType="int16", updateUnchangedValuesEveryMillis=0 ]
    Thing data CO2_Max [ readStart="012", readValueType="int16", updateUnchangedValuesEveryMillis=0 ]
    Thing data Baseline_Min [ readStart="013", readValueType="int16", updateUnchangedValuesEveryMillis=0 ]
    Thing data Baseline_Max [ readStart="014", readValueType="int16", updateUnchangedValuesEveryMillis=0 ]
    Thing data Temp2_Min [ readStart="015", readValueType="int16", readTransform="JS(divide10.js)", updateUnchangedValuesEveryMillis=0 ]
    Thing data Temp2_Max [ readStart="016", readValueType="int16", readTransform="JS(divide10.js)", updateUnchangedValuesEveryMillis=0 ]
    Thing data Temp3_Min [ readStart="017", readValueType="int16", readTransform="JS(divide10.js)", updateUnchangedValuesEveryMillis=0 ]
    Thing data Temp3_Max [ readStart="018", readValueType="int16", readTransform="JS(divide10.js)", updateUnchangedValuesEveryMillis=0 ]
  }

  Bridge poller SensorOffset [ start=005, length=4, refresh=0, type="holding" ]
  {
    Thing data Temp1_0 [ readStart="005", readValueType="int16", readTransform="JS(divide10.js)", writeStart="5", writeValueType="int16",
writeType="holding", writeTransform="JS(multiply10.js)" ]
    Thing data Temp2_0 [ readStart="006", readValueType="int16", readTransform="JS(divide10.js)", writeStart="6", writeValueType="int16",
writeType="holding", writeTransform="JS(multiply10.js)" ]
    Thing data Temp3_0 [ readStart="007", readValueType="int16", readTransform="JS(divide10.js)", writeStart="7", writeValueType="int16",
writeType="holding", writeTransform="JS(multiply10.js)" ]
    Thing data Baseline_S [ readStart="008", readValueType="int16", writeStart="8", writeValueType="int16", writeType="holding" ]
  }

  Thing data SensorResetMinMax [ writeStart="9", writeValueType="int16", writeType="holding", writeTransform="1" ]
  // Thing data SensorSetAddr201 [ writeStart="0", writeValueType="int16", writeType="holding", writeTransform="201" ]
}

Bridge modbus:serial:ZigzaSensor_2 [ port="/dev/ttyUSB0", id=201, baud=9600, stopBits="1.0", parity="none", dataBits=8, encoding="rtu" ]
{
  Bridge poller SensorValue [ start=000, length=19, refresh=15000, type="holding" ]
  {
    Thing data Temp1 [ readStart="000", readValueType="int16", readTransform="JS(divide10.js)", updateUnchangedValuesEveryMillis=0 ]
    Thing data Hum1 [ readStart="001", readValueType="int16", readTransform="JS(divide10.js)", updateUnchangedValuesEveryMillis=0 ]
    Thing data Dew1 [ readStart="002", readValueType="int16", readTransform="JS(divide10.js)", updateUnchangedValuesEveryMillis=0 ]
    Thing data Temp2 [ readStart="003", readValueType="int16", readTransform="JS(divide10.js)", updateUnchangedValuesEveryMillis=0 ]
    Thing data Temp3 [ readStart="004", readValueType="int16", readTransform="JS(divide10.js)", updateUnchangedValuesEveryMillis=0 ]
    Thing data Temp1_Min [ readStart="009", readValueType="int16", readTransform="JS(divide10.js)", updateUnchangedValuesEveryMillis=0 ]
    Thing data Temp1_Max [ readStart="010", readValueType="int16", readTransform="JS(divide10.js)", updateUnchangedValuesEveryMillis=0 ]
    Thing data Hum1_Min [ readStart="011", readValueType="int16", readTransform="JS(divide10.js)", updateUnchangedValuesEveryMillis=0 ]
    Thing data Hum1_Max [ readStart="012", readValueType="int16", readTransform="JS(divide10.js)", updateUnchangedValuesEveryMillis=0 ]
    Thing data Dew1_Min [ readStart="013", readValueType="int16", readTransform="JS(divide10.js)", updateUnchangedValuesEveryMillis=0 ]
    Thing data Dew1_Max [ readStart="014", readValueType="int16", readTransform="JS(divide10.js)", updateUnchangedValuesEveryMillis=0 ]
    Thing data Temp2_Min [ readStart="015", readValueType="int16", readTransform="JS(divide10.js)", updateUnchangedValuesEveryMillis=0 ]
    Thing data Temp2_Max [ readStart="016", readValueType="int16", readTransform="JS(divide10.js)", updateUnchangedValuesEveryMillis=0 ]
    Thing data Temp3_Min [ readStart="017", readValueType="int16", readTransform="JS(divide10.js)", updateUnchangedValuesEveryMillis=0 ]
    Thing data Temp3_Max [ readStart="018", readValueType="int16", readTransform="JS(divide10.js)", updateUnchangedValuesEveryMillis=0 ]
  }

  Bridge poller SensorOffset [ start=005, length=3, refresh=0, type="holding" ]
  {
    Thing data Temp1_0 [ readStart="005", readValueType="int16", readTransform="JS(divide10.js)", writeStart="5", writeValueType="int16",
writeType="holding", writeTransform="JS(multiply10.js)" ]
    Thing data Temp2_0 [ readStart="006", readValueType="int16", readTransform="JS(divide10.js)", writeStart="6", writeValueType="int16",
writeType="holding", writeTransform="JS(multiply10.js)" ]
    Thing data Temp3_0 [ readStart="007", readValueType="int16", readTransform="JS(divide10.js)", writeStart="7", writeValueType="int16",
writeType="holding", writeTransform="JS(multiply10.js)" ]
  }

  Thing data SensorResetMinMax [ writeStart="9", writeValueType="int16", writeType="holding", writeTransform="1" ]
}
}
```

## /etc/openhab2/items/modbus.items

```
Number Chart_Period <temperature>
Group Zigza_Sensor1_Grafico_Temp "Grafisk Temperatur"
Group Zigza_Sensor1_Grafico_CO2 "Grafisk CO2"
Group Zigza_Sensor2_Grafico_Temp "Grafisk Temperatur"
Group Zigza_Sensor2_Grafico_Hum "Grafisk Humidity"

// Zigza 0022-M CO2 / TEMPERATUR SENSOR
Number ZigzaSensor_1_Temp1 "Temperature 1 [%.1f Â°C]" (Zigza_Sensor1_Grafico_Temp)
{channel="modbus:data:ZigzaSensor_1:SensorValue:Temp1:number"}
Number ZigzaSensor_1_CO2 "CO2 [%d ppm]" (Zigza_Sensor1_Grafico_CO2)
{channel="modbus:data:ZigzaSensor_1:SensorValue:CO2:number"}
Number ZigzaSensor_1_Baseline "Baseline remain [%d]" {channel="modbus:data:ZigzaSensor_1:SensorValue:Baseline:number"}
Number ZigzaSensor_1_Temp2 "Temperature 2 [%.1f Â°C]" (Zigza_Sensor1_Grafico_Temp)
{channel="modbus:data:ZigzaSensor_1:SensorValue:Temp2:number"}
Number ZigzaSensor_1_Temp3 "Temperature 3 [%.1f Â°C]" (Zigza_Sensor1_Grafico_Temp)
{channel="modbus:data:ZigzaSensor_1:SensorValue:Temp3:number"}

Number ZigzaSensor_1_Temp1_Min "Temperature 1 Min [%.1f Â°C]" {channel="modbus:data:ZigzaSensor_1:SensorValue:Temp1_Min:number"}
Number ZigzaSensor_1_Temp1_Max "Temperature 1 Max [%.1f Â°C]" {channel="modbus:data:ZigzaSensor_1:SensorValue:Temp1_Max:number"}
Number ZigzaSensor_1_CO2_Min "CO2 Min [%d ppm]" {channel="modbus:data:ZigzaSensor_1:SensorValue:CO2_Min:number"}
Number ZigzaSensor_1_CO2_Max "CO2 Max [%d ppm]" {channel="modbus:data:ZigzaSensor_1:SensorValue:CO2_Max:number"}
Number ZigzaSensor_1_Baseline_Min "Baseline Min [%d]" {channel="modbus:data:ZigzaSensor_1:SensorValue:Baseline_Min:number"}
Number ZigzaSensor_1_Baseline_Max "Baseline Max [%d]" {channel="modbus:data:ZigzaSensor_1:SensorValue:Baseline_Max:number"}
Number ZigzaSensor_1_Temp2_Min "Temperature 2 Min [%.1f Â°C]" {channel="modbus:data:ZigzaSensor_1:SensorValue:Temp2_Min:number"}
Number ZigzaSensor_1_Temp2_Max "Temperature 2 Max [%.1f Â°C]" {channel="modbus:data:ZigzaSensor_1:SensorValue:Temp2_Max:number"}
Number ZigzaSensor_1_Temp3_Min "Temperature 3 Min [%.1f Â°C]" {channel="modbus:data:ZigzaSensor_1:SensorValue:Temp3_Min:number"}
Number ZigzaSensor_1_Temp3_Max "Temperature 3 Max [%.1f Â°C]" {channel="modbus:data:ZigzaSensor_1:SensorValue:Temp3_Max:number"}

Number ZigzaSensor_1_Temp1_0 "Temperature 1 Offset [%.1f Â°C]" {channel="modbus:data:ZigzaSensor_1:SensorOffset:Temp1_0:number"}
Number ZigzaSensor_1_Temp2_0 "Temperature 2 Offset [%.1f Â°C]" {channel="modbus:data:ZigzaSensor_1:SensorOffset:Temp2_0:number"}
Number ZigzaSensor_1_Temp3_0 "Temperature 3 Offset [%.1f Â°C]" {channel="modbus:data:ZigzaSensor_1:SensorOffset:Temp3_0:number"}
Number ZigzaSensor_1_Baseline_S "Baseline [%d]" {channel="modbus:data:ZigzaSensor_1:SensorOffset:Baseline_S:number"}

Switch ZigzaSensor_1_ResetMinMax "Reset Min/Max[]" {channel="modbus:data:ZigzaSensor_1:SensorResetMinMax:switch",
autoupdate="false"}
//Switch ZigzaSensor_1_SensorSetAddr201 "Set Address 201[]" {channel="modbus:data:ZigzaSensor_1:SensorSetAddr201:switch",
autoupdate="false"}

// Zigza 0021-M FUGT / TEMPERATUR SENSOR
Number ZigzaSensor_2_Temp1 "Temperature 1 [%.1f Â°C]" (Zigza_Sensor2_Grafico_Temp)
{channel="modbus:data:ZigzaSensor_2:SensorValue:Temp1:number"}
Number ZigzaSensor_2_Temp2 "Temperature 2 [%.1f Â°C]" (Zigza_Sensor2_Grafico_Temp)
{channel="modbus:data:ZigzaSensor_2:SensorValue:Temp2:number"}
Number ZigzaSensor_2_Temp3 "Temperature 3 [%.1f Â°C]" (Zigza_Sensor2_Grafico_Temp)
{channel="modbus:data:ZigzaSensor_2:SensorValue:Temp3:number"}
Number ZigzaSensor_2_Hum1 "Humidity 1 [%.1f %]" (Zigza_Sensor2_Grafico_Hum)
{channel="modbus:data:ZigzaSensor_2:SensorValue:Hum1:number"}
Number ZigzaSensor_2_Dew1 "Dew Point 1 [%.1f Â°C]" {channel="modbus:data:ZigzaSensor_2:SensorValue:Dew1:number"}

Number ZigzaSensor_2_Temp1_Min "Temperature 1 Min [%.1f Â°C]" {channel="modbus:data:ZigzaSensor_2:SensorValue:Temp1_Min:number"}
Number ZigzaSensor_2_Temp1_Max "Temperature 1 Max [%.1f Â°C]" {channel="modbus:data:ZigzaSensor_2:SensorValue:Temp1_Max:number"}
Number ZigzaSensor_2_Temp2_Min "Temperature 2 Min [%.1f Â°C]" {channel="modbus:data:ZigzaSensor_2:SensorValue:Temp2_Min:number"}
Number ZigzaSensor_2_Temp2_Max "Temperature 2 Max [%.1f Â°C]" {channel="modbus:data:ZigzaSensor_2:SensorValue:Temp2_Max:number"}
Number ZigzaSensor_2_Temp3_Min "Temperature 3 Min [%.1f Â°C]" {channel="modbus:data:ZigzaSensor_2:SensorValue:Temp3_Min:number"}
Number ZigzaSensor_2_Temp3_Max "Temperature 3 Max [%.1f Â°C]" {channel="modbus:data:ZigzaSensor_2:SensorValue:Temp3_Max:number"}
Number ZigzaSensor_2_Hum1_Min "Humidity 1 Min [%.1f %]" {channel="modbus:data:ZigzaSensor_2:SensorValue:Hum1_Min:number"}
Number ZigzaSensor_2_Hum1_Max "Humidity 1 Max [%.1f %]" {channel="modbus:data:ZigzaSensor_2:SensorValue:Hum1_Max:number"}
Number ZigzaSensor_2_Dew1_Min "Dew Point 1 Min [%.1f Â°C]" {channel="modbus:data:ZigzaSensor_2:SensorValue:Dew1_Min:number"}
Number ZigzaSensor_2_Dew1_Max "Dew Point 1 Max [%.1f Â°C]" {channel="modbus:data:ZigzaSensor_2:SensorValue:Dew1_Max:number"}

Number ZigzaSensor_2_Temp1_0 "Temperature 1 Offset [%.1f Â°C]" {channel="modbus:data:ZigzaSensor_2:SensorOffset:Temp1_0:number"}
Number ZigzaSensor_2_Temp2_0 "Temperature 2 Offset [%.1f Â°C]" {channel="modbus:data:ZigzaSensor_2:SensorOffset:Temp2_0:number"}
Number ZigzaSensor_2_Temp3_0 "Temperature 3 Offset [%.1f Â°C]" {channel="modbus:data:ZigzaSensor_2:SensorOffset:Temp3_0:number"}

Switch ZigzaSensor_2_ResetMinMax "Reset Min/Max[]" {channel="modbus:data:ZigzaSensor_2:SensorResetMinMax:switch", autoupdate="false"}
```

## **/etc/openhab2/transform/devide10.js**

```
// Wrap everything in a function (no global variable pollution)
// variable "input" contains data passed by openHAB
(function(inputData) {
  // on read: the polled number as string
  // on write: openHAB command as string
  var DIVIDE_BY = 10;
  return parseFloat(inputData) / DIVIDE_BY;
})(input)
```

## **/etc/openhab2/transform/multiply10.js**

```
// Wrap everything in a function (no global variable pollution)
// variable "input" contains data passed by openHAB
(function(inputData) {
  // on read: the polled number as string
  // on write: openHAB command as string
  var MULTIPLY_BY = 10;
  return Math.round(parseFloat(inputData, 10) * MULTIPLY_BY);
})(input)
```

## **/etc/openhab2/persistence/influxdb,persist**

```
Strategies {
  everyMinute : "0 * * * * ?"
}
Items {
  Zigza_Sensor1_Grafico_Temp* : strategy = everyUpdate, restoreOnStartup
  Zigza_Sensor1_Grafico_CO2* : strategy = everyUpdate, restoreOnStartup
  Zigza_Sensor2_Grafico_Temp* : strategy = everyUpdate, restoreOnStartup
  Zigza_Sensor2_Grafico_Hum* : strategy = everyUpdate, restoreOnStartup
}
```

## /etc/openhab2/sitemaps/zigza.sitemap

```
sitemap zigza label="Main Menu" {

Frame label="Zigza Sensor 1 (Modbus 0022-M CO2 / TEMPERATUR SENSOR )"
{
  Frame label=""
  {
    Text item=ZigzaSensor_1_Temp1 icon="temperature"
    Setpoint item=ZigzaSensor_1_Temp1_0 minValue=-10 maxValue=10 step=0.1 icon="temperature"
    Text item=ZigzaSensor_1_Temp2 icon="temperature"
    Setpoint item=ZigzaSensor_1_Temp2_0 minValue=-10 maxValue=10 step=0.1 icon="temperature"
    Text item=ZigzaSensor_1_Temp3 icon="temperature"
    Setpoint item=ZigzaSensor_1_Temp3_0 minValue=-10 maxValue=10 step=0.1 icon="temperature"
    Text item=ZigzaSensor_1_Baseline icon=""
    Setpoint item=ZigzaSensor_1_Baseline_S minValue=1000 maxValue=20000 step=10 icon=""
    Text item=ZigzaSensor_1_CO2 icon="carbondioxide"
  }

  Frame label=""
  {
    Text item=ZigzaSensor_1_Temp1_Min icon="temperature"
    Text item=ZigzaSensor_1_Temp1_Max icon="temperature"
    Text item=ZigzaSensor_1_Temp2_Min icon="temperature"
    Text item=ZigzaSensor_1_Temp2_Max icon="temperature"
    Text item=ZigzaSensor_1_Temp3_Min icon="temperature"
    Text item=ZigzaSensor_1_Temp3_Max icon="temperature"
    Text item=ZigzaSensor_1_CO2_Min icon="carbondioxide"
    Text item=ZigzaSensor_1_CO2_Max icon="carbondioxide"
    Text item=ZigzaSensor_1_Baseline_Min icon=""
    Text item=ZigzaSensor_1_Baseline_Max icon=""
    Switch item=ZigzaSensor_1_ResetMinMax icon="settings" mappings=[ON="Click"]
  }

  Frame label="Zigza Sensor 1"
  {
    Switch item=Chart_Period label="Graf Periode" mappings=[0="Time", 1="Dag", 2="Uge", 3="MÅned", 4="Å.r" ]
    Chart item=Zigza_Sensor1_Grafico_Temp period=h refresh=240 legend=true visibility=[Chart_Period==0]
    Chart item=Zigza_Sensor1_Grafico_Temp period=D refresh=900 legend=true visibility=[Chart_Period==1, Chart_Period=="NULL"]
    Chart item=Zigza_Sensor1_Grafico_Temp period=W refresh=3600 legend=true visibility=[Chart_Period==2]
    Chart item=Zigza_Sensor1_Grafico_Temp period=M refresh=3600 legend=true visibility=[Chart_Period==3]
    Chart item=Zigza_Sensor1_Grafico_Temp period=Y refresh=3600 legend=true visibility=[Chart_Period==4]

    Chart item=Zigza_Sensor1_Grafico_CO2 period=h refresh=240 legend=true visibility=[Chart_Period==0]
    Chart item=Zigza_Sensor1_Grafico_CO2 period=D refresh=900 legend=true visibility=[Chart_Period==1, Chart_Period=="NULL"]
    Chart item=Zigza_Sensor1_Grafico_CO2 period=W refresh=3600 legend=true visibility=[Chart_Period==2]
    Chart item=Zigza_Sensor1_Grafico_CO2 period=M refresh=3600 legend=true visibility=[Chart_Period==3]
    Chart item=Zigza_Sensor1_Grafico_CO2 period=Y refresh=3600 legend=true visibility=[Chart_Period==4]
  }
}

Frame label="Zigza Sensor 2 (Modbus 0021-M FUGT / TEMPERATUR SENSOR)"
{
  Frame label=""
  {
    Text item=ZigzaSensor_2_Temp1 icon="temperature"
    Setpoint item=ZigzaSensor_2_Temp1_0 minValue=-10 maxValue=10 step=0.1 icon="temperature"
    Text item=ZigzaSensor_2_Temp2 icon="temperature"
    Setpoint item=ZigzaSensor_2_Temp2_0 minValue=-10 maxValue=10 step=0.1 icon="temperature"
    Text item=ZigzaSensor_2_Temp3 icon="temperature"
    Setpoint item=ZigzaSensor_2_Temp3_0 minValue=-10 maxValue=10 step=0.1 icon="temperature"
    Text item=ZigzaSensor_2_Hum1 icon="humidity"
    Text item=ZigzaSensor_2_Dew1 icon="temperature"
  }

  Frame label=""
  {
    Text item=ZigzaSensor_2_Temp1_Min icon="temperature"
    Text item=ZigzaSensor_2_Temp1_Max icon="temperature"
    Text item=ZigzaSensor_2_Temp2_Min icon="temperature"
    Text item=ZigzaSensor_2_Temp2_Max icon="temperature"
    Text item=ZigzaSensor_2_Temp3_Min icon="temperature"
    Text item=ZigzaSensor_2_Temp3_Max icon="temperature"
    Text item=ZigzaSensor_2_Hum1_Min icon="humidity"
    Text item=ZigzaSensor_2_Hum1_Max icon="humidity"
    Text item=ZigzaSensor_2_Dew1_Min icon="temperature"
    Text item=ZigzaSensor_2_Dew1_Max icon="temperature"
    Switch item=ZigzaSensor_2_ResetMinMax icon="settings" mappings=[ON="Click"]
  }

  Frame label="Zigza Sensor 2"
  {
    Switch item=Chart_Period label="Graf Periode" mappings=[0="Time", 1="Dag", 2="Uge", 3="MÅned", 4="Å.r" ]
    Chart item=Zigza_Sensor2_Grafico_Temp period=h refresh=240 legend=true visibility=[Chart_Period==0]
    Chart item=Zigza_Sensor2_Grafico_Temp period=D refresh=900 legend=true visibility=[Chart_Period==1, Chart_Period=="NULL"]
    Chart item=Zigza_Sensor2_Grafico_Temp period=W refresh=3600 legend=true visibility=[Chart_Period==2]
    Chart item=Zigza_Sensor2_Grafico_Temp period=M refresh=3600 legend=true visibility=[Chart_Period==3]
    Chart item=Zigza_Sensor2_Grafico_Temp period=Y refresh=3600 legend=true visibility=[Chart_Period==4]

    Chart item=Zigza_Sensor2_Grafico_Hum period=h refresh=240 legend=true visibility=[Chart_Period==0]
    Chart item=Zigza_Sensor2_Grafico_Hum period=D refresh=900 legend=true visibility=[Chart_Period==1, Chart_Period=="NULL"]
    Chart item=Zigza_Sensor2_Grafico_Hum period=W refresh=3600 legend=true visibility=[Chart_Period==2]
    Chart item=Zigza_Sensor2_Grafico_Hum period=M refresh=3600 legend=true visibility=[Chart_Period==3]
    Chart item=Zigza_Sensor2_Grafico_Hum period=Y refresh=3600 legend=true visibility=[Chart_Period==4]
  }
}

// Frame label=""
// {
//   Switch item=ZigzaSensor_2_SensorSetAddr201 mappings=[ON="Click"]
// }
}
```