DS18B20
Thermometer (digital)
(-55 ... +125 °C)

DS18B20

MoleBox W001
m-BITBEAM open source sensor box
www.e-Mole.cz/molebox

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MLX90614
IR Thermometer
(-70 ... +380 °C)

MLX90614

MoleBox I005
m-BITBEAM open source sensor box
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(-70 ... +380 °C)

MLX90614

MoleBox I005
m-BITBEAM open source sensor box
www.e-Mole.cz/molebox

MAX6675
Thermometer (K-Type)
(Digital converter MAX6675,
12 bit, resolution 0,25 °C,
0 ... 1024 °C)

MAX6675

MoleBox D034
m-BITBEAM open source sensor box
www.e-Mole.cz/molebox

MAX6675
Thermometer (K-Type)
(Digital converter MAX6675,
12 bit, resolution 0,25 °C,
0 ... 1024 °C)

MAX6675

MoleBox D034
m-BITBEAM open source sensor box
www.e-Mole.cz/molebox

MAX6675
Thermometer (K-Type)
(Digital converter MAX6675,
12 bit, resolution 0,25 °C,
0 ... 1024 °C)

MAX6675

MoleBox D034
m-BITBEAM open source sensor box
www.e-Mole.cz/molebox

MAX6675
Thermometer (K-Type)
(Digital converter MAX6675,
12 bit, resolution 0,25 °C,
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MAX6675

MoleBox D034
m-BITBEAM open source sensor box
www.e-Mole.cz/molebox

MAX6675
Thermometer (K-Type)
(Digital converter MAX6675,
12 bit, resolution 0,25 °C,
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MAX6675

MoleBox D034
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Thermometer (K-Type)
(Digital converter MAX6675,
12 bit, resolution 0,25 °C,
0 ... 1024 °C)

MAX6675

MoleBox D034
m-BITBEAM open source sensor box
www.e-Mole.cz/molebox

BME280
Pressure (barometric), humidity, temperature
(300 ... 1100 hPa, 0 ... 100 % rel.,
-40 ... +85 °C)

ATTENTION!
For atmospheric pressure only!

BME280

MoleBox I002
m-BITBEAM open source sensor box
www.e-Mole.cz/molebox

BME280
Pressure (barometric), humidity, temperature
(300 ... 1100 hPa, 0 ... 100 % rel.,
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BME280

MoleBox I002
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MPX5700DP
Differential pressure
(0 ... 700 kPa)

MPX5700DP

MoleBox A006
m-BITBEAM open source sensor box
www.e-Mole.cz/molebox

MPX5700DP
Differential pressure
(0 ... 700 kPa)

MPX5700DP

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Differential pressure
(0 ... 700 kPa)

MPX5700DP

MoleBox A006
m-BITBEAM open source sensor box
www.e-Mole.cz/molebox

pH E201
pH meter module
(pH 0 ... 14, analog output 0 ... 5 V,
digital output 0/1)

ATTENTION!
Before measuring, you need to calibrate!
pH 4 ... 3,071 V; pH 7 ... 2,535 V; pH 10 .. 2,066 V

pH E201

MoleBox A014
m-BITBEAM open source sensor box
www.e-Mole.cz/molebox

pH E201
pH meter module
(pH 0 ... 14, analog output 0 ... 5 V,
digital output 0/1)

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Before measuring, you need to calibrate!
pH 4 ... 3,071 V; pH 7 ... 2,535 V; pH 10 .. 2,066 V

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pH E201

MoleBox A014
m-BITBEAM open source sensor box
www.e-Mole.cz/molebox

ORP board V1.0
Redox potential
(-1999 ... 1999 mV, analog output 0 ... 4 V)

ATTENTION! If you want correct numbers,
not just trends, you need to calibrate!
The output depends on the connected ORP electrode!

ORP board

MoleBox A037
m-BITBEAM open source sensor box
www.e-Mole.cz/molebox

ORP board V1.0
Redox potential
(-1999 ... 1999 mV, analog output 0 ... 4 V)

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ORP board

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The output depends on the connected ORP electrode!

ORP board

MoleBox A037
m-BITBEAM open source sensor box
www.e-Mole.cz/molebox

TDS/el. conductivity
Total Dissolved Solids
(0 ... 1000 ppm, 0 ... 1560 µS/cm, LM393,
analog output 0 ... 2,3 V,
digital output 0/1)

ATTENTION!
Before measuring, you need to calibrate!

TDS

MoleBox A015
m-BITBEAM open source sensor box
www.e-Mole.cz/molebox

TDS/el. conductivity
Total Dissolved Solids
(0 ... 1000 ppm, 0 ... 1560 µS/cm, LM393,
analog output 0 ... 2,3 V,
digital output 0/1)

ATTENTION!
Before measuring, you need to calibrate!

TDS

MoleBox A015
m-BITBEAM open source sensor box
www.e-Mole.cz/molebox

TDS/el. conductivity
Total Dissolved Solids
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TDS

MoleBox A015
m-BITBEAM open source sensor box
www.e-Mole.cz/molebox

MH-Z16
CO_2 concentration
(carbon dioxide gas sensor,
0 ... 30000 ppm, ±50 ppm)

MH-Z16

MoleBox C019
m-BITBEAM open source sensor box
www.e-Mole.cz/molebox

MH-Z16
CO_2 concentration
(carbon dioxide gas sensor,
0 ... 30000 ppm, ±50 ppm)

MH-Z16

MoleBox C019
m-BITBEAM open source sensor box
www.e-Mole.cz/molebox

MH-Z16
CO_2 concentration
(carbon dioxide gas sensor,
0 ... 30000 ppm, ±50 ppm)

MH-Z16

MoleBox C019
m-BITBEAM open source sensor box
www.e-Mole.cz/molebox

MH-Z16
CO_2 concentration
(carbon dioxide gas sensor,
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MH-Z16

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m-BITBEAM open source sensor box
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MH-Z16
CO_2 concentration
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MoleBox C019
m-BITBEAM open source sensor box
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MH-Z16
CO_2 concentration
(carbon dioxide gas sensor,
0 ... 30000 ppm, ±50 ppm)

MH-Z16

MoleBox C019
m-BITBEAM open source sensor box
www.e-Mole.cz/molebox

MQ-02
Gas sensor
(hydrocarbons, hydrogen)
(300 ... 10000 ppm,
analog output 0 ... 5 V,
LM393, digital output 0/1)

ATTENTION! Before measuring, you need to calibrate! The sensor detects ethanol as well.

MQ-02

MoleBox A036
m-BITBEAM open source sensor box
www.e-Mole.cz/molebox

MQ-02
Gas sensor
(hydrocarbons, hydrogen)
(300 ... 10000 ppm,
analog output 0 ... 5 V,
LM393, digital output 0/1)

ATTENTION! Before measuring, you need to calibrate! The sensor detects ethanol as well.

MQ-02

MoleBox A036
m-BITBEAM open source sensor box
www.e-Mole.cz/molebox

MQ-02
Gas sensor
(hydrocarbons, hydrogen)
(300 ... 10000 ppm,
analog output 0 ... 5 V,
LM393, digital output 0/1)

ATTENTION! Before measuring, you need to calibrate! The sensor detects ethanol as well.

MQ-02

MoleBox A036
m-BITBEAM open source sensor box
www.e-Mole.cz/molebox

MQ-02
Gas sensor
(hydrocarbons, hydrogen)
(300 ... 10000 ppm,
analog output 0 ... 5 V,
LM393, digital output 0/1)

ATTENTION! Before measuring, you need to calibrate! The sensor detects ethanol as well.

MQ-02

MoleBox A036
m-BITBEAM open source sensor box
www.e-Mole.cz/molebox

MQ-02
Gas sensor
(hydrocarbons, hydrogen)
(300 ... 10000 ppm,
analog output 0 ... 5 V,
LM393, digital output 0/1)

ATTENTION! Before measuring, you need to calibrate! The sensor detects ethanol as well.

MQ-02

MoleBox A036
m-BITBEAM open source sensor box
www.e-Mole.cz/molebox

MQ-02
Gas sensor
(hydrocarbons, hydrogen)
(300 ... 10000 ppm,
analog output 0 ... 5 V,
LM393, digital output 0/1)

ATTENTION! Before measuring, you need to calibrate! The sensor detects ethanol as well.

MQ-02

MoleBox A036
m-BITBEAM open source sensor box
www.e-Mole.cz/molebox

MQ-03
Gas sensor
(ethanol, alcohols)
(25 ... 500 ppm,
analog output 0 ... 5 V,
LM393, digital output 0/1)

ATTENTION! Before measuring, you need to calibrate! The sensor detects gasoline as well.

MQ-03

MoleBox A025
m-BITBEAM open source sensor box
www.e-Mole.cz/molebox

MQ-03
Gas sensor
(ethanol, alcohols)
(25 ... 500 ppm,
analog output 0 ... 5 V,
LM393, digital output 0/1)

ATTENTION! Before measuring, you need to calibrate! The sensor detects gasoline as well.

MQ-03

MoleBox A025
m-BITBEAM open source sensor box
www.e-Mole.cz/molebox

MQ-03
Gas sensor
(ethanol, alcohols)
(25 ... 500 ppm,
analog output 0 ... 5 V,
LM393, digital output 0/1)

ATTENTION! Before measuring, you need to calibrate! The sensor detects gasoline as well.

MQ-03

MoleBox A025
m-BITBEAM open source sensor box
www.e-Mole.cz/molebox

MQ-03
Gas sensor
(ethanol, alcohols)
(25 ... 500 ppm,
analog output 0 ... 5 V,
LM393, digital output 0/1)

ATTENTION! Before measuring, you need to calibrate! The sensor detects gasoline as well.

MQ-03

MoleBox A025
m-BITBEAM open source sensor box
www.e-Mole.cz/molebox

MQ-03
Gas sensor
(ethanol, alcohols)
(25 ... 500 ppm,
analog output 0 ... 5 V,
LM393, digital output 0/1)

ATTENTION! Before measuring, you need to calibrate! The sensor detects gasoline as well.

MQ-03

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m-BITBEAM open source sensor box
www.e-Mole.cz/molebox

MQ-03
Gas sensor
(ethanol, alcohols)
(25 ... 500 ppm,
analog output 0 ... 5 V,
LM393, digital output 0/1)

ATTENTION! Before measuring, you need to calibrate! The sensor detects gasoline as well.

MQ-03

MoleBox A025
m-BITBEAM open source sensor box
www.e-Mole.cz/molebox

TS-300B
Turbidimeter/turbidity sensor
(0 ... 1000 NTU, analog out 0 ... 4.0 V,
LM393, digital output 0/1)

ATTENTION!
Before measuring, you need to calibrate!

TS-300B

MoleBox A025
m-BITBEAM open source sensor box
www.e-Mole.cz/molebox

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TS-300B

MoleBox A025
m-BITBEAM open source sensor box
www.e-Mole.cz/molebox

PULSESENSOR.COM
Heart rate
(LED + APDS-9008,
analog output 0,3 ... 5 V, BPM)

PULSESENSOR.COM

MoleBox A022B
m-BITBEAM open source sensor box
www.e-Mole.cz/molebox

PULSESENSOR.COM
Heart rate
(LED + APDS-9008,
analog output 0,3 ... 5 V, BPM)

PULSESENSOR.COM

MoleBox A022B
m-BITBEAM open source sensor box
www.e-Mole.cz/molebox

PULSESENSOR.COM
Heart rate
(LED + APDS-9008,
analog output 0,3 ... 5 V, BPM)

PULSESENSOR.COM

MoleBox A022B
m-BITBEAM open source sensor box
www.e-Mole.cz/molebox

PULSESENSOR.COM
Heart rate
(LED + APDS-9008,
analog output 0,3 ... 5 V, BPM)

PULSESENSOR.COM

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Heart rate
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PULSESENSOR.COM
Heart rate
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analog output 0,3 ... 5 V, BPM)

PULSESENSOR.COM

MoleBox A022B
m-BITBEAM open source sensor box
www.e-Mole.cz/molebox

ECG (AD8232)
Heart Rate Monitor
(integrated circuit AD8232
for measuring ECG and biosignals,
analog output 0 ... 3,3 V)

ECG (AD8232)

MoleBox A010
m-BITBEAM open source sensor box
www.e-Mole.cz/molebox

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Heart Rate Monitor
(integrated circuit AD8232
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analog output 0 ... 3,3 V)

ECG (AD8232)

MoleBox A010
m-BITBEAM open source sensor box
www.e-Mole.cz/molebox

VDC25
DC voltmeter
(0 ... 25 V DC, voltage divider,
analog output 0 ... 5 V)

ATTENTION!
Do not reverse the input (plus + [VCC] and minus - [GND]). There is a risk of destroying the module and the microcontroller!

VDC25

MoleBox A028
m-BITBEAM open source sensor box
www.e-Mole.cz/molebox

VDC25
DC voltmeter
(0 ... 25 V DC, voltage divider,
analog output 0 ... 5 V)

ATTENTION!
Do not reverse the input (plus + [VCC] and minus - [GND]). There is a risk of destroying the module and the microcontroller!

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VDC25

MoleBox A028
m-BITBEAM open source sensor box
www.e-Mole.cz/molebox

ACS712 5A
AC/DC current
(0 ... 5 A AC/DC,
analog output 0 ... 5 V)

ACS712 5A

MoleBox A029
m-BITBEAM open source sensor box
www.e-Mole.cz/molebox

ACS712 5A
AC/DC current
(0 ... 5 A AC/DC,
analog output 0 ... 5 V)

ACS712 5A

MoleBox A029
m-BITBEAM open source sensor box
www.e-Mole.cz/molebox

ACS712 5A
AC/DC current
(0 ... 5 A AC/DC,
analog output 0 ... 5 V)

ACS712 5A

MoleBox A029
m-BITBEAM open source sensor box
www.e-Mole.cz/molebox

ACS712 5A
AC/DC current
(0 ... 5 A AC/DC,
analog output 0 ... 5 V)

ACS712 5A

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m-BITBEAM open source sensor box
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ACS712 5A
AC/DC current
(0 ... 5 A AC/DC,
analog output 0 ... 5 V)

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ACS712 5A
AC/DC current
(0 ... 5 A AC/DC,
analog output 0 ... 5 V)

ACS712 5A

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m-BITBEAM open source sensor box
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ACS712 30A
AC/DC current
(0 ... 30 A AC/DC,
analog output 0 ... 5 V)

ACS712 30A

MoleBox A030
m-BITBEAM open source sensor box
www.e-Mole.cz/molebox

ACS712 30A
AC/DC current
(0 ... 30 A AC/DC,
analog output 0 ... 5 V)

ACS712 30A

MoleBox A030
m-BITBEAM open source sensor box
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ACS712 30A
AC/DC current
(0 ... 30 A AC/DC,
analog output 0 ... 5 V)

ACS712 30A

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ACS712 30A

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PHOTORESISTOR
Light intensity
(Photoresistor, analog output 0 ... 5 V,
LM393, digital output 0/1)

PHOTORESISTOR

MoleBox A018
m-BITBEAM open source sensor box
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Light intensity
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BH1750
Light intensity - luxmeter
(1 ... 65535 lx)

ATTENTION!
The maximum frequency of data reading from the sensor is only 8 Hz!

BH1750

MoleBox I032
m-BITBEAM open source sensor box
www.e-Mole.cz/molebox

BH1750
Light intensity - luxmeter
(1 ... 65535 lx)

ATTENTION!
The maximum frequency of data reading from the sensor is only 8 Hz!

BH1750

MoleBox I032
m-BITBEAM open source sensor box
www.e-Mole.cz/molebox

BH1750
Light intensity - luxmeter
(1 ... 65535 lx)

ATTENTION!
The maximum frequency of data reading from the sensor is only 8 Hz!

BH1750

MoleBox I032
m-BITBEAM open source sensor box
www.e-Mole.cz/molebox

BH1750
Light intensity - luxmeter
(1 ... 65535 lx)

ATTENTION!
The maximum frequency of data reading from the sensor is only 8 Hz!

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BH1750

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VEML6070
UV light intensity
(detection limit max. 328 mW/cm^2, max. sensitivity at 355 nm)

VEML6070

MoleBox I031
m-BITBEAM open source sensor box
www.e-Mole.cz/molebox

VEML6070
UV light intensity
(detection limit max. 328 mW/cm^2, max. sensitivity at 355 nm)

VEML6070

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VEML6070

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KY-037
Sound sensor
(sensitive electret microphone, analog output 0 ... 5 V, LM393, digital output 0/1)

KY-037
MoleBox A027
m-BITBEAM open source sensor box
www.e-Mole.cz/molebox

KY-037
Sound sensor
(sensitive electret microphone, analog output 0 ... 5 V, LM393, digital output 0/1)

KY-037
MoleBox A027
m-BITBEAM open source sensor box
www.e-Mole.cz/molebox

KY-037
Sound sensor
(sensitive electret microphone, analog output 0 ... 5 V, LM393, digital output 0/1)

KY-037
MoleBox A027
m-BITBEAM open source sensor box
www.e-Mole.cz/molebox

KY-037
Sound sensor
(sensitive electret microphone, analog output 0 ... 5 V, LM393, digital output 0/1)

KY-037
MoleBox A027
m-BITBEAM open source sensor box
www.e-Mole.cz/molebox

KY-037
Sound sensor
(sensitive electret microphone, analog output 0 ... 5 V, LM393, digital output 0/1)

KY-037
MoleBox A027
m-BITBEAM open source sensor box
www.e-Mole.cz/molebox

KY-037
Sound sensor
(sensitive electret microphone, analog output 0 ... 5 V, LM393, digital output 0/1)

KY-037
MoleBox A027
m-BITBEAM open source sensor box
www.e-Mole.cz/molebox

KY-024
Magnetic field sensor
(Hall sensor 49E, analog output 0 ... 5 V, LM393, digital output 0/1)

KY-024
MoleBox A023
m-BITBEAM open source sensor box
www.e-Mole.cz/molebox

KY-024
Magnetic field sensor
(Hall sensor 49E, analog output 0 ... 5 V, LM393, digital output 0/1)

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m-BITBEAM open source sensor box
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LSM303DLHC
3D accelerometer and 3D magnetometer
(±16 × g, ±8,1 Gs)

LSM303DLHC
MoleBox I003
m-BITBEAM open source sensor box
www.e-Mole.cz/molebox

LSM303DLHC
3D accelerometer and 3D magnetometer
(±16 × g, ±8,1 Gs)

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HX711
24bit A/D converter
(two-channel A/D converter, often used for tensometric load cell "force meters/scales")

HX711
MoleBox D007
m-BITBEAM open source sensor box
www.e-Mole.cz/molebox

HX711
24bit A/D converter
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HC-SR04
Motion/distance ultrasonic sensor
(2 cm ... 400 cm, typically up to 200 cm)

HC-SR04
MoleBox D021
m-BITBEAM open source sensor box
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VL53L0X
Motion/distance laser ToF sensor
(laser 940 nm, 0 ... 200 cm, typically up to 150 cm)

VL53L0X
MoleBox I105
m-BITBEAM open source sensor box
www.e-Mole.cz/molebox

VL53L0X
Motion/distance laser ToF sensor
(laser 940 nm, 0 ... 200 cm, typically up to 150 cm)

VL53L0X
MoleBox I105
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www.e-Mole.cz/molebox

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VL53L0X
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KY-031
Knock sensor module
(digital output 0/1)

ATTENTION!
The impact must be relatively large (e.g. a fall from a height of 50 cm)!

KY-031

MoleBox D031
m-BITBEAM open source sensor box
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Knock sensor module
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KY-031
Knock sensor module
(digital output 0/1)

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KY-031

MoleBox D031
m-BITBEAM open source sensor box
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KY-039
Heart rate
(IR LED + phototransistor,
analog output 0 ... 5 V)

ATTENTION!
Setting the sensor on the finger
is (sometimes) problematic

KY-039

MoleBox A022
m-BITBEAM open source sensor box
www.e-Mole.cz/molebox

KY-039
Heart rate
(IR LED + phototransistor,
analog output 0 ... 5 V)

ATTENTION!
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KY-039

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DHT22
Hygrometer, thermometer
(0 ... 100 % rel., -40 ... +85 °C)

ATTENTION!
Slow response, reading data up to 2s!

DHT11

MoleBox W024
m-BITBEAM open source sensor box
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Hygrometer, thermometer
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