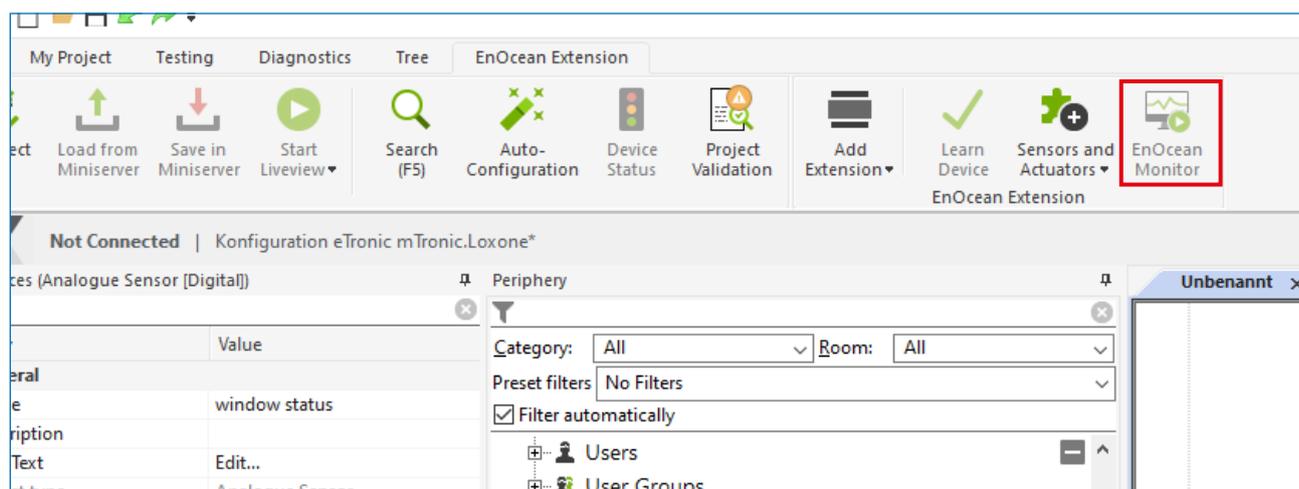


## Integration instructions - Loxone gateway

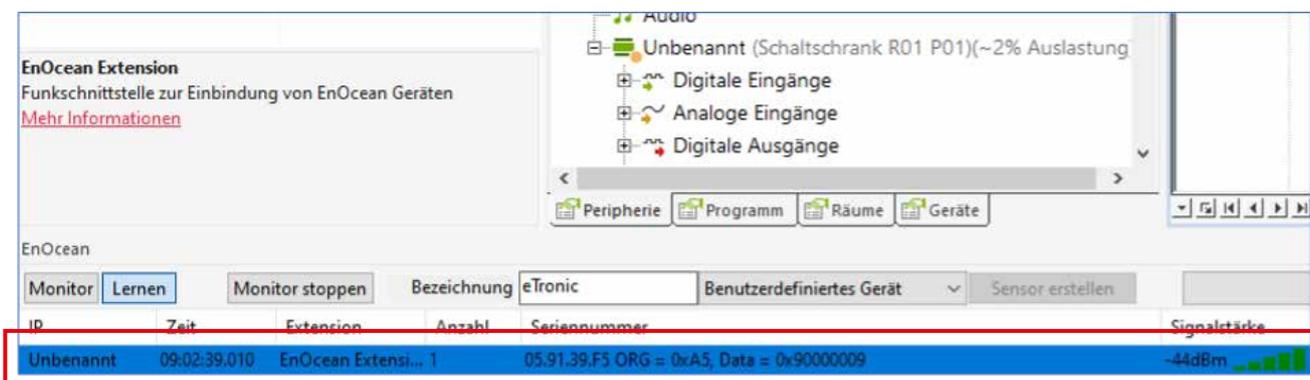


- › The pre-requisite for the integration is the use of a Loxone Miniserver, with installed and configured EnOcean Extension (<https://www.loxone.com/dede/kb/inbetriebnahme-enocean-extension/>).
- › The free software „**Loxone Config**“ must be installed on a PC.

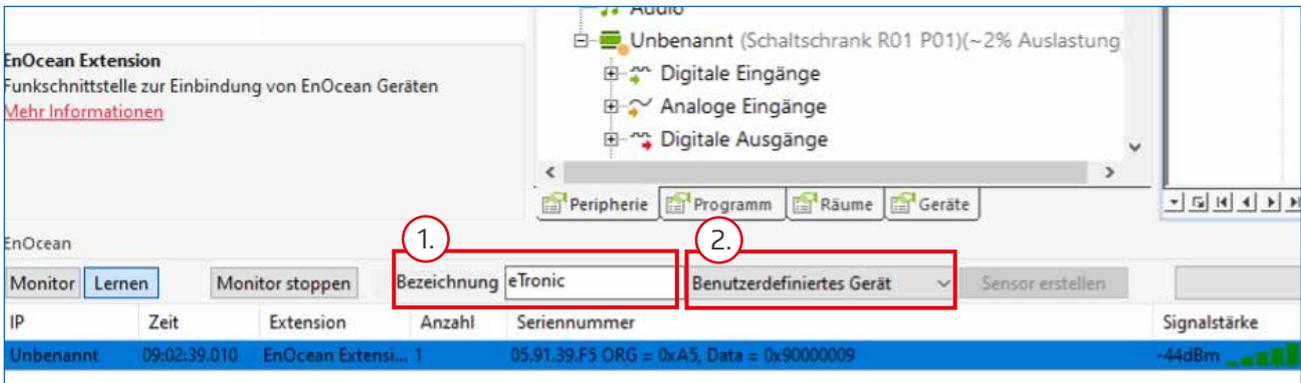
- › Open the „**EnOcean Monitor**“.



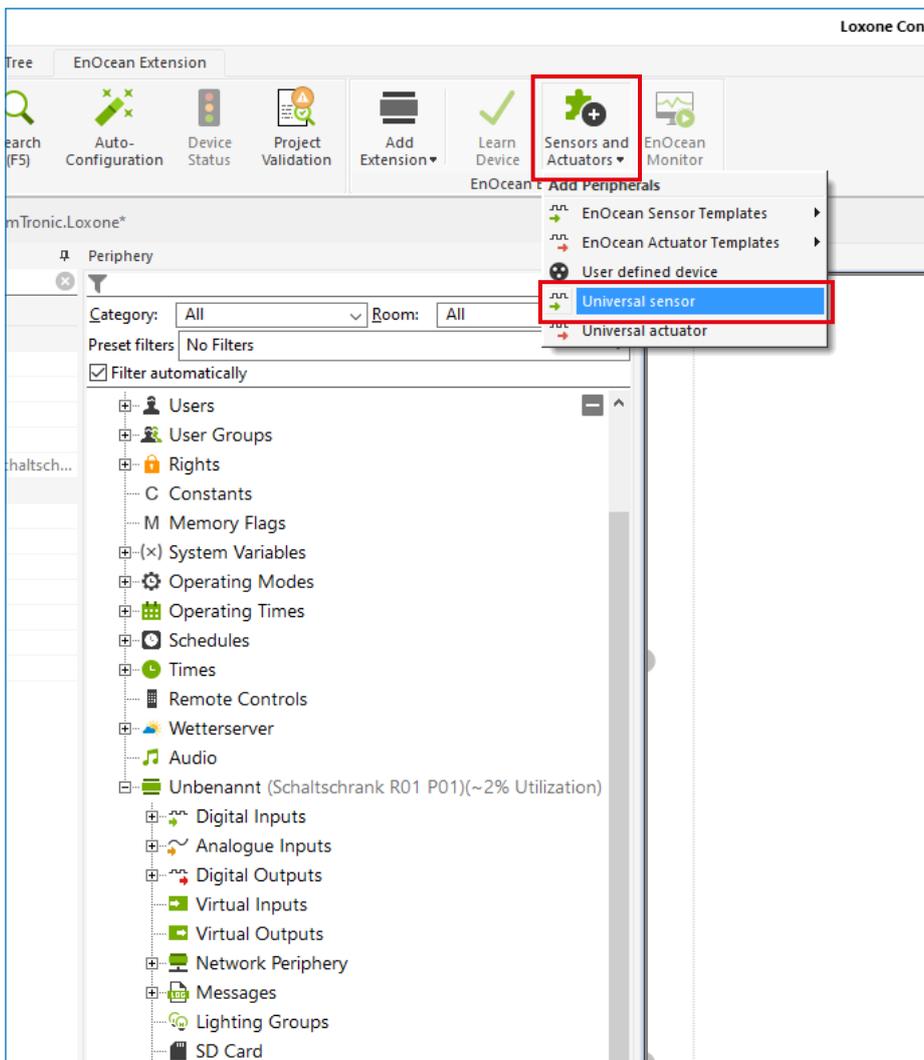
- › Select the sensor to be taught. In case the sensor is not visible in the list, actuate the sensor or trigger a teaching signal so that it appears in the list.



› The selected sensor can now be renamed and setup as a user defined device.



› The sensor now appears in the Peripherals list. First, select the sensor, then choose on „Sensors and Actuators“ and then click on „User defined sensor“ in the dropdown menu.



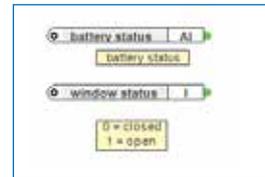
A further sensor is then added below the selected sensor. A separate sensor must be added for each „Function“, i.e. for **eTronic two sensors** must be created (window status and battery status), for **mTronic three sensors** must be created (window status, battery status and alarm signal).

Each sensor must be configured according to the transmitted signals, therefore with the following values:

› Standard values for easy configuration and correct display of **MACO eTronic**.

General	
Name	battery status
Description	
Hint Text	Edit...
Object type	Analogue Sensor
Connection	AO14
Statistics	
Category	Nicht zugeordnet
Room	Nicht zugeordnet
User Interface	
Permissions	
Preferences	
<input type="checkbox"/> Display error output	
<input type="checkbox"/> Use as digital input	
Most significant bit	31
Least significant bit	24
Correction	
Input value 1	0
Target value 1	0
Input value 2	250
Target value 2	5
Logging/Mail/Call/Track	
Validation	
Sensitivity	
Minimal change	0,25
Minimum time interval	1
Average	do not use
Display	
Unit	<v, I> V DC
Simulation/LiveView	
Frequency mode	Rectangle
Frequency	0

General	
Name	window status
Description	
Hint Text	Edit...
Object type	Analogue Sensor
Connection	AO11
Statistics	
Category	Nicht zugeordnet
Room	Nicht zugeordnet
User Interface	
Permissions	
Manage permissions	Edit...
Authorized users / groups	Edit...
Preferences	
<input type="checkbox"/> Display error output	
<input checked="" type="checkbox"/> Use as digital input	
Bit	0
Logging/Mail/Call/Track	
Validation	
Receive timeout	0
Default Value	Off
Simulation/LiveView	
Display Type	Push-button (normally open)

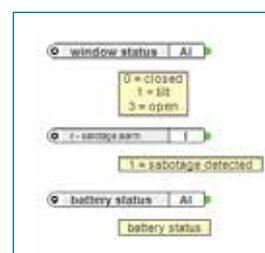


› Standard values for easy configuration and correct display of **MACO mTronic**.

General	
Name	battery status
Description	
Hint Text	Edit...
Object type	Analogue Sensor
Connection	AO12
Statistics	
Category	Nicht zugeordnet
Room	Nicht zugeordnet
User Interface	
Permissions	
Preferences	
<input type="checkbox"/> Display error output	
<input type="checkbox"/> Use as digital input	
Most significant bit	31
Least significant bit	24
Correction	
Input value 1	0
Target value 1	0
Input value 2	250
Target value 2	5
Logging/Mail/Call/Track	
Validation	
Sensitivity	
Minimal change	0,25
Minimum time interval	1
Average	Average over 1 minute
Display	
Unit	<v, I> V DC
Simulation/LiveView	
Frequency mode	Rectangle
Frequency	0

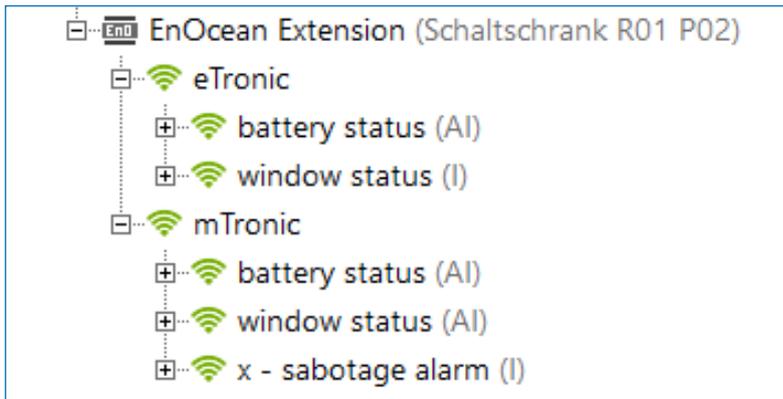
General	
Name	window status
Description	
Hint Text	Edit...
Object type	Analogue Sensor
Connection	AO12
Statistics	
Category	Nicht zugeordnet
Room	Nicht zugeordnet
User Interface	
Permissions	
Preferences	
<input type="checkbox"/> Display error output	
<input type="checkbox"/> Use as digital input	
Most significant bit	2
Least significant bit	1
Correction	
Input value 1	0
Target value 1	0
Input value 2	10
Target value 2	10
Logging/Mail/Call/Track	
Validation	
Sensitivity	
Minimal change	0,25
Minimum time interval	1
Average	Average over 1 minute
Display	
Unit	<v>
Simulation/LiveView	
Frequency mode	Rectangle
Frequency	0

General	
Name	x - sabotage alarm
Description	
Hint Text	Edit...
Object type	Analogue Sensor
Connection	AO11
Statistics	
Category	Nicht zugeordnet
Room	Nicht zugeordnet
User Interface	
Permissions	
Manage permissions	Edit...
Authorized users / groups	Edit...
Preferences	
<input type="checkbox"/> Display error output	
<input checked="" type="checkbox"/> Use as digital input	
Bit	0
Logging/Mail/Call/Track	
Validation	
Receive timeout	0
Default Value	Off
Simulation/LiveView	
Display Type	Push-button (normally open)



„Vibration“ =  
mTronic alarm  
signal

› After being correctly configured, the added sensors should look like this:



› Note on battery status of eTronic and mTronic:

Threshold value	Battery level
$\geq 2,60 \text{ V}$	Very good / good
2,59 – 2,29 V	Medium
$\leq 2,28 \text{ V}$	Poor

We recommend changing the battery at the latest when the value is  $\leq 2.28\text{V}$ .

With sensors, you can see what data is being transmitted by the device in the EnOcean Monitor.

Additional information and support for the integration of sensors in an existing Loxone building management system is available from your local Loxone Partner (<https://www.loxone.com/dede/kaufen/partner-findern/>) or directly in Loxone's Support Area: <https://www.loxone.com/dede/support/>

**MACO near you:**

[www.maco.eu/contact](http://www.maco.eu/contact)



TECHNOLOGY IN MOTION



This print document is revised regularly.  
The latest version is available at <https://www.maco.eu/assets/759367>  
or scan the QR code.

Created: 05/2021 - Changed: 03.11.2022  
Order No. 759367  
All rights reserved and subject to change.