

## 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".

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N	ly Project	Testing	Diagnostics	Tree	EnOcean Exten	sion					
	<u>t</u>	÷		Q	×.		<u>.</u>		$\checkmark$	*	
ect	Load from Miniserver	Save in Miniserver	Start Liveview •	Search (F5) (	Auto- Configuration	Device Status	Project Validation	Add Extension •	Learn Device	Sensors and Actuators •	EnOcean Monitor
									EnOcean	Extension	
Not Connected   Konfiguration eTronic mTronic.Lo ces (Analogue Sensor [Digital])					.oxone* Periphery					д	Unbenannt 🗙
				8	T					8	
		Valu	ue		Category:	All		✓ <u>R</u> oom:	All	~	
eral			Preset filters	No Filter	s			~			
e window status			Filter automatically								
ription											
Text Edit			ters and the second sec								
ct to	me	Ana	loque Sensor		📄 🔆 主	Jser Gro	ups				

> 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.

	Peripherie Programm Raume Gerate	- <u> </u>
EnOcean		
Monitor Lernen Monitor stoppen Bezeichnun	g eTronic Benutzerdefiniertes Gerät 🗸 Sensor erst	tellen
ID Zeit Extension Anzahl	Seriennummer	Signalstärke

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

EnOcean Extension Funkschnittstelle zur Einbindung von EnOcean Geräten <u>Mehr Informationen</u>			Geräten	Peripher	□		- 5 H 4 F F
EnOcean			1.		(2.)		
Monitor Ler	nen I	Monitor stoppen	Bezeichnung	eTronic	Benutzerdefiniertes Gerät 🗸 Sensor erstellen	6	
IP	Zeit	Extension	Anzahl	Seriennummer	r'	S	ignalstärke
Unbenannt	09:02:39.0	10 EnOcean Exter	nsi 1	05.91.39.F5 OR0	5 = 0xA5, Data = 0x9000009	3	4d8m _==

> 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.

			Loxone Cont
Tree	E	EnOcean Extension	
earch (F5)	Co	Auto- Device Project Validation Extension Validation Extension Validation Extension Validation Process and Actuators Validation Process Actuators Validation Validat	
		Enocean Sensor Templates	+
mTroni	ic.Lo	oxone* In Ocean Actuator Templates	+
	ф.,	Periphery User defined device	
	<u> </u>	Ceteroran All Decret All	
		Category: All Vicesal actuator	-
		Preset filters	
		E user Groups	
haltscl	h		
		C Constants	
		M Memory Flags	
		⊞(×) System Variables	
		🗄 🖓 Operating Modes	
		⊡- 📅 Operating Times	
		⊡ Schedules	
		🗄 🖷 🤒 Times	
		Remote Controls	
		E Wetterserver	
		E- Onbenannt (Schaltschrank RU1 PU1)(~2% Utilization)	
		Virtual Inputs	
		Virtual Outputs	
		The second	
		Messages	
		Sighting Groups	
		- f SD Card	

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.

🗄 Ger	seral	
Nar	ne	battery status
Des	cription	
Hin	t Text	Edit
05	eut type	Analogue Sensor
Cor	mestico	ACH
1	Statistics	
Cat	egory	Nicht zugeordnet
Red	175	Nicht zugeordnet.
S Une	er Interface	
E Per	missions	
B Pre	ferences	
1	Display error output	
17	Use as digital input	
Mo	st significant bit	31
Lee	st significant bit	24
E Cor	rection	
lip	ut value 1	0
Tarr	pet value 1	0
Inp	ut value 2	250
Tarr	pet value 2	5
10 Log	ging/Mall/Call/Track	
E Vali	dation	
8 5m	witivity	
Me	imal change	0,25
Ma	iimum time interval	1
Ave	rage	do not use
8 Dis	play	
Uni	L	Ky.1>V DC
E Sim	ulation/LiveView	
Free	quency mode	Rectangle
Free	quency	0





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

D General	
Name	battery status
Description	
Hint Text	Edit
Object type	Analogue Sensor
Connection	4002
Statistics	
Category	Nicht zugeordnet
Room	Nicht augeordnet
User Interface	
E Permissions	
Preferences	
Display error output	
Use as digital input	
Most significant bit	21
Least significant bit	24
E Correction	
Input value 1	0
Target value 1	0
Input value 2	250
Target value 2	5
E Logging/Mail/Call/Track	
Validation	
3 Sensitivity	
Minimal change	0.25
Minimum time interval	1
Average	Average over 1 minute
Display	
Unit	<v,1>V DC</v,1>
3 Simulation/LiveView	
Frequency mode	Rectangle
Frequency	0

8	General					
	Name	window status				
	Description					
	Hint Text	Edit				
	Object type	Analogue Sensor				
	Connection	A012				
	T Statistics					
	Category	Nicht zugeordnet				
	Room	Nicht zugeordnet				
Ð,	User Interface					
8	Permissions					
m	Preferences					
	Display error output					
	🗍 Use as digital input					
	Most significant bit	2				
	Least significant bit	1				
13	Correction					
	Input value 1	0				
	Target value 1	0				
	Input value 2	10				
	Target value 2	10				
₿	Logging/Mail/Call/Track					
00	Validation					
8	Sensitivity					
	Minimal change	0,25				
	Minimum time interval	1				
	Average	Average over 1 minute				
8	Display					
	Unit	4¥2				
B	Simulation/LiveView					
	Frequency mode	Rectangle				
	Frequency	0				



"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
≥ 2,60 V	Very good / good
2,59 – 2,29 V	Medium
≤ 2,28 V	Poor

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

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-finden/) or directly in Loxone's Support Area: https://www.loxone.com/dede/support/



MACO near you:

www.maco.eu/contact

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