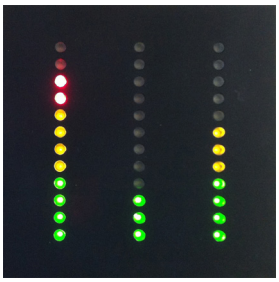
GYR-Indicator	Product Group 1
Anwendung: Visualization of KNX data in three independent indicator strips. Product data base: **GYR-Indicator.pr5**	

GYR-Indicator	Article	Article Description	Article No.
EIB/KNX		Document: 1200_ex_GYR-Indicator.pdf	
	GYR-I3-xxx	Values lights in metal housing 80,5 x 80,5 x 8mm 3 green-yellow-red indicator strips with each 12 LED Aluminium sandblasted anodized IP20	22311300

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1 Application Description

Operating Principals and Areas of Application

The display unit **GYR Indicator** can be visualized up to three values of the KNX bus.
It is used as visually line indicator for temperature, air quality, fuel economy, fluid levels and other data from the KNX system.

Mounting using subplate fixture and theft protection screw into standard in wall pattress 60/68 mm IP20.

KNX sensors are setup using the ETS (KNX Tool Software) with the associated application program.
The device is delivered unprogrammed.
All functions are parameterized and programmed by ETS.

Functions

- Display and monitoring up to three values
- three display modes
  - continuous line
  - single point
  - three zones
- two calculation methods (lin / log)
- Auxiliary variable for yellow (starting value) and red (start and end)
- Output for evaluation of the individual segments (green / yellow / red)
  and
- shortfall of green and red exceeded
- audible warning

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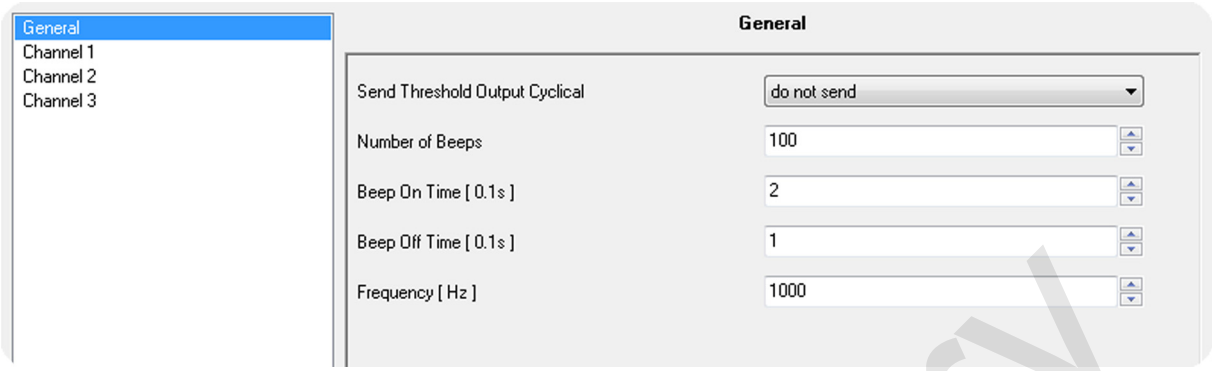
2 KNX Parameter

General



General - GYR-Indicator

Parameter	Setting	Description
Send Threshold Output Cyclical	• kein zyklisches Senden • 1 .. 120 Minuten	Measured values will be sent in the preset cycle time. If cyclical sending is disabled, measured values will only be sent if changes in measured values occur. A minimum interval of 10 seconds is maintained in order to restrict bus load.
Number of Beeps	1 .. 255	This setting is the number of beeps when exceeding the set range (see parameter Channel X) specified.
Beep On Time [0,1s]	1 .. 255	beep length
Beep Off Time [0,1s]	1 .. 255	beep pause
Frequency [Hz]	200 .. 5000	beep frequency

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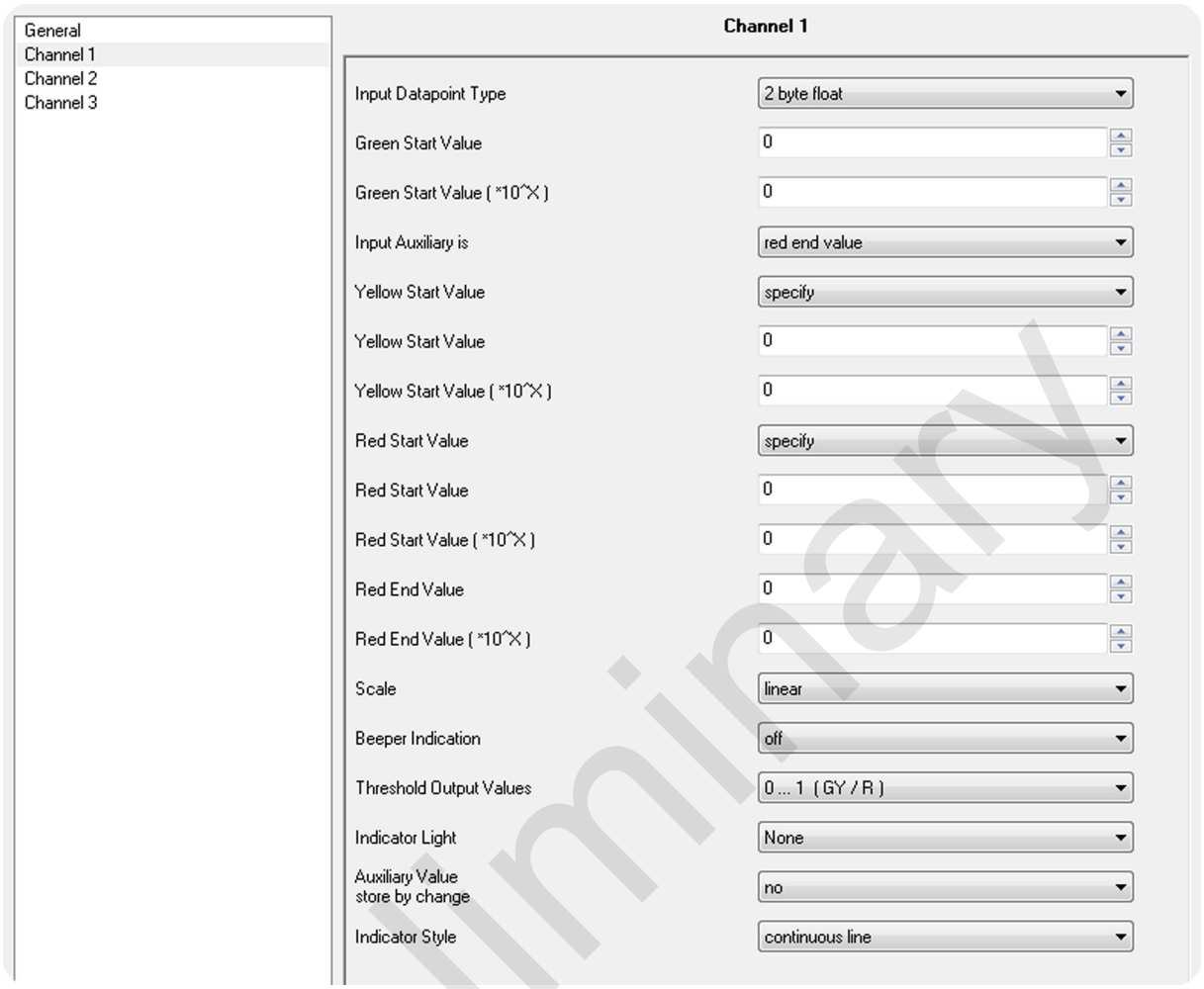
Parameter Channel X



Channel X - GYR-Indicator

Parameter	Setting	Description
Input Datapoint Type	• 1 bit • 1 byte unsigned • 1 byte signed • 2 byte unsigned • 2 byte signed • 2 byte float • 4 byte unsigned • 4 byte signed • 4 byte float	Measured Data Output and Auxiliary Data are defined concurrently.
Green Start Value	depending on the data point type	Value at which the green segment begins.
Green Start Value (*10^X)	-100 .. 100	Multiplier for "Green Start Value".

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Channel X - GYR-Indicator (continue)

Parameter	Setting	Description
Input Auxiliary is	• yellow start value • red start value • red end value	Here shall determines which parameter can be influenced by the auxiliary variable. The auxiliary variable is transmitted via the object 1,5,9 "Input Auxiliary Channel X".
Yellow Start Value	• calculate • specify	Here you can set whether the start value should be calculated for yellow or specified directly.
Yellow Start Value	depending on the data point type	Value at which the yellow segment begins.
Yellow Start Value (*10^X)	-100 .. 100	Multiplier for "Yellow Start Value".
Red Start Value	• calculate • specify	Here you can set whether the start value should be calculated for red or specified directly.
Red Start Value	depending on the data point type	Value at which the red segment begins.
Red Start Value (*10^X)	-100 .. 100	Multiplier for "Red Start Value".
Red End Value	depending on the data point type	Value at which the red segment ends.
Red End Value (*10^X)	-100 .. 100	Multiplier for "Red End Value".
Scale	• linear • logarithmic	Setting of the calculation method.
Beeper Indicatio	• off • exceed green • exceed yellow • exceed red	Application of signal which can be configured under "General parameters".
Threshold Output Values	• 0..1 (GY / R) • 0..2 (G / Y / R) • 0..4 (<G / G / Y / R / >R)	Depending on the control of green, yellow or red are the default values to the object 3,7,11 "Threshold Output Channel X" is available.
Threshold Light	• None • First Green Digit	When set to "First Green Digit" the lower LED of the green segment is always on.
Auxiliary Value store by change	• no • yes	The auxiliary quantity which is specified by the object 1,5,9 "Auxiliary Input Channel X" can be stored in the GYR-Indicator, sodass nach Spannungsausfall die Hilfsgröße nicht neu geschrieben werden muss.
Indicator Style	• continuous line • single point • three zones	The display mode is set.

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3 KNX Objects

Objects - GYR-Indicator

No.	Label	Data Point Type			Function
0	Input Channel 1	DPT	1.* Boolesch	2 Byte	Input
1	Input Auxiliary Channel 1	DPT	variabel	2 Byte	Auxiliary
2	Input Lock Channel 1	DPT	variabel	1 Bit	Lock
3	Threshold Output Channel 1	DPT	5.* unsigned	1 Byte	Threshold
4	Input Channel 2	DPT	1.* Boolesch	2 Byte	Input
5	Input Auxiliary Channel 2	DPT	variabel	2 Byte	Auxiliary
6	Input Lock Channel 2	DPT	variabel	1 Bit	Lock
7	Threshold Output Channel 2	DPT	5.* unsigned	1 Byte	Threshold
8	Input Channel 3	DPT	1.* Boolesch	2 Byte	Input
9	Input Auxiliary Channel 3	DPT	variabel	2 Byte	Auxiliary
10	Input Lock Channel 3	DPT	variabel	1 Bit	Lock
11	Threshold Output Channel 3	DPT	5.* unsigned	1 Byte	Threshold

Object Description - GYR-Indicator

No.	Label	Description
0, 4, 8	Input Channel X	Input value for display
1, 5, 9	Input Auxiliary Channel X	Input auxiliary variable, which in the "Parameter Channel X - Auxiliary input is" is selected.
2, 6, 10	Input Lock Channel X	The appropriate channel can be locked. 1 -> lock, no display
3, 7, 11	Threshold Output Channel X	Using this object, a status value is returned. see „Parameter Channel X - Threshold Output Values“

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4 Product Page

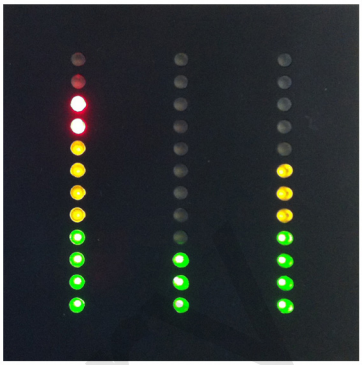
The **GYR Indicator** provides visual representation of temperature, air quality, fuel economy, fluid levels and other data from the KNX system.
The module has three indicator bars, which can be parameterized independently.

The device has an integrated KNX bus coupler and does not require additional voltage.

Installation **GYR Indicator** is carried out using a mounting ring and the locking screw are used for fixation in a standard 60/68 mm in wall pattress IP20.
The frame is made of sandblasted aluminum, anodized.
(80,5 x 80,5 x 8) mm.

All functions are programmed and parameterized with ETS.

Articel-No.: 22311300

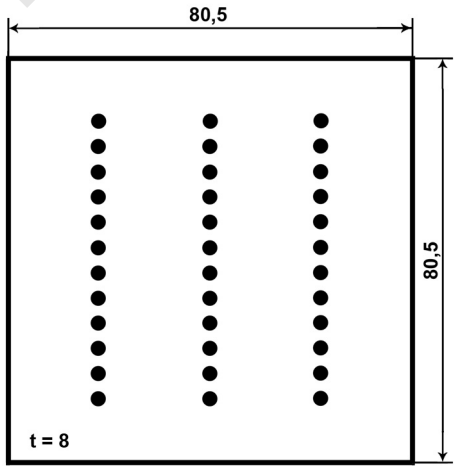


Values lights in metal housing
in wall
IP20

Areas of Application

- Visualization of KNX data in three independent indicator strips.

Operating Voltage:	21 .. 32VDC
Power Consumption:	approx. 240mW (at 24VDC)
Operating Temperature:	-20 .. +55 °C
Storage Temperature:	-20 .. +85 °C
Protection Class:	IP20



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5 Technical Data

Technical Data - GYR Indicator

Operating Voltage	EIB/KNX bus voltage 21 .. 32VDC
Power Consumption	approx. 240 mW (at 24VDC)
Auxiliary Supply	not required
Bus Coupler	integrated
Ambient Temperature	Operation: -20 .. +55 °C Storage: -20 .. +85 °C
Start-up with ETS	**GYR-Indicator.pr5**
Curcuit Points	EIB-2-pole clamps (red / black)
Protection Class	IP20
Assembly Type	Installation with a mounting ring, in wall
Casing Type	Aluminium sandblasted anodized
Casing Dimensions	80,5 x 80,5 x 8 mm (W x H x D)
Article Number	22311300

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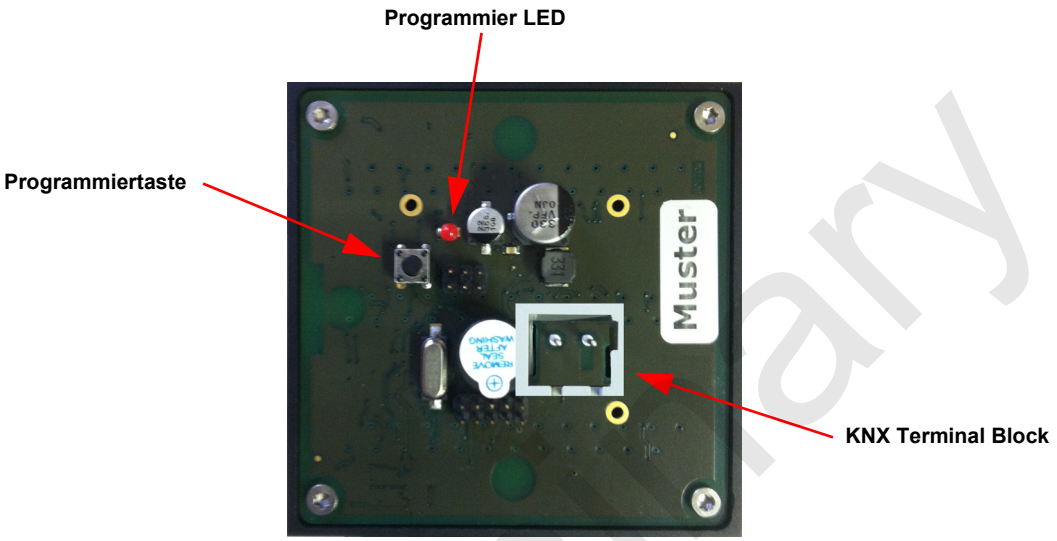
6 Startup

The KNX **GYR Indicator** is set up using the ETS (KNX Tool Software) and the applicable application program.
The device is delivered unprogrammed.
All functions are programmed and parameterized with ETS.
Please read the ETS instructions.



GYR-Indicator Assembly View

7 Assembly

The display module **GYR Indicator** is designed for installation indoors.
It meets IP20 protection class.
Installation GYR Indicator is carried out using a mounting ring and the locking screw are used for fixation in a standard 60/68 mm in wall pattress.

Be careful not to damage the electronics with tools and cable heads.

In Case of Bus Voltage Recurrence

The outputs start with their current values and the ETS parameter settings are saved.

Discharge Program and Reset Sensor

In order to delete the programming (projecting) and to reset the module back to delivery status, it must be switched to zero potential (disconnect the EIB bus coupler).
Press and hold the programming button while reconnecting the EIB bus coupler and wait until the programming LED lights up (approx. 5-10 seconds).
Now you can release the programming button.
The module is ready for renewed projecting.
If you release the programming button too early, repeat the aforementioned procedure.

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Imprint

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KNX arcus-eds electronic design services gmbh

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