



S S REGELTECHNIK GW-wMODBUS-RAG Gateway with Modbus Module Wireless Instruction Manual

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S S REGELTECHNIK GW-wMODBUS-RAG Gateway with Modbus Module Wireless



Product Specifications

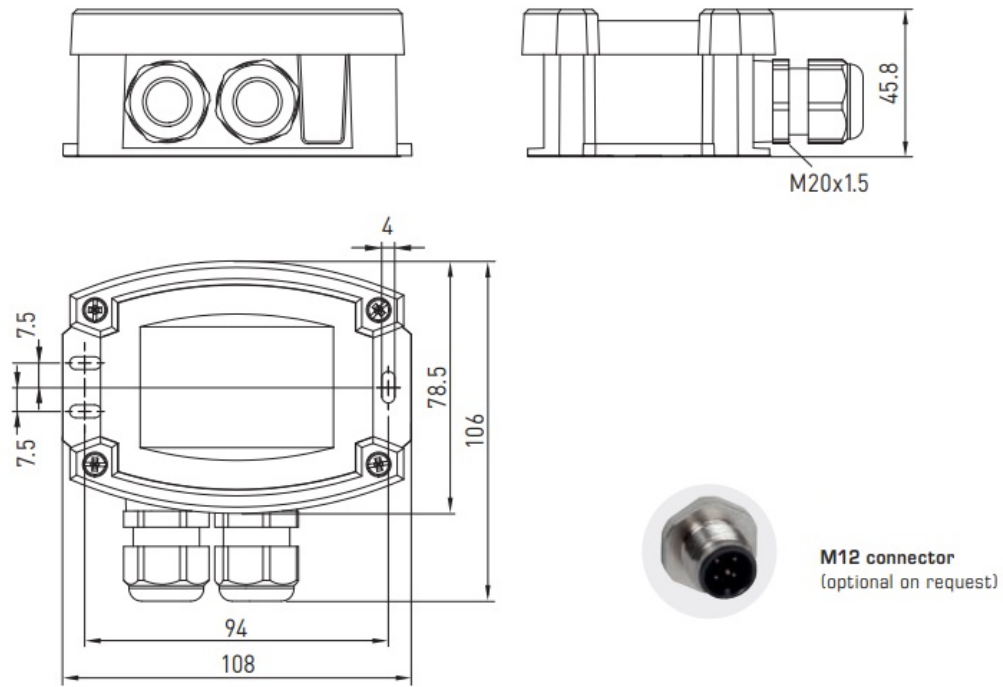
- Dimensions: 108 x 78.5 x 43.3 mm
- Power Supply: M20x1.5
- Communication: Modbus RTU / W-Modbus (Wireless)
- Operating Modes: Gateway, Node, Node Pro
- Range: Wireless
- Operating Temperature: < 95% RH, non-condensing air
- Protection Rating: IP65

Operating and Mounting Instructions

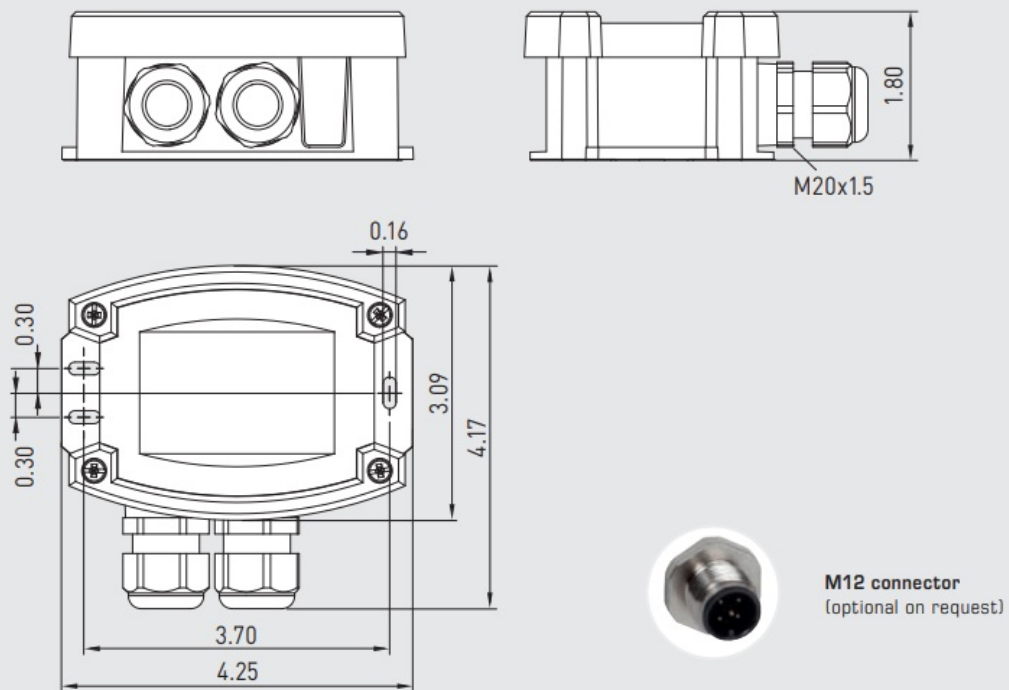
Gateway with W-Modbus module (Wireless), for radio-based connection to Modbus networks

Dimensional drawing

Dimensional drawing



Dimensional drawing
[inch]



- The gateway KYMASGARD® GW-wModbus with Modbus connection and W-Modbus (wireless), in an impact-resistant plastic housing with quick-locking screws, for on-wall installation, serves as a transition between wired Modbus and radio-based W-Modbus.
- Up to 100 nodes can communicate with each other over a long distance (up to 500 m / 1640 ft in a free field).
- An electrically isolated RS485 transceiver is used on the wired side (bus parameters can be set via DIP switches).
- The simple setup of the wireless network and the connection stability enable existing systems to be easily

expanded with wireless W-Modbus sensors. Even mixed configurations of wired and radio-based Modbus units can be easily integrated into existing network topologies via the

- W-Modbus gateway. For this purpose, there are two operating modes available depending on the unit type.
- Gateway operation for connection to an existing Modbus topology or directly to a DDC/PLC, serves as a base station for W-Modbus sensors (max. 100 wireless nodes). Node operation enables a wired Modbus sensor to be connected wirelessly to a W-Modbus network (max. 1 wired sensor). The extended Node Pro mode (for "GW-wModbusPro unit type") is used to connect several wired Modbus sensors (max. 16 wired nodes).
- The innovative parametrisation feature of the W-Modbus interface and the elimination of Modbus wiring means that the entire W-Modbus network can be pre-configured (pairing the W-Modbus nodes, parametrising the gateway). This means that the network can be installed and put into operation quickly and easily at the destination. In App mode, the network setup can be checked and documented (PDF) using the Lumenradio W-Modbus app (Apple/Android). Other app functions also include installing firmware updates for the wireless module, changing unit names and recognising communication errors or duplicate addresses.

TECHNICAL DATA

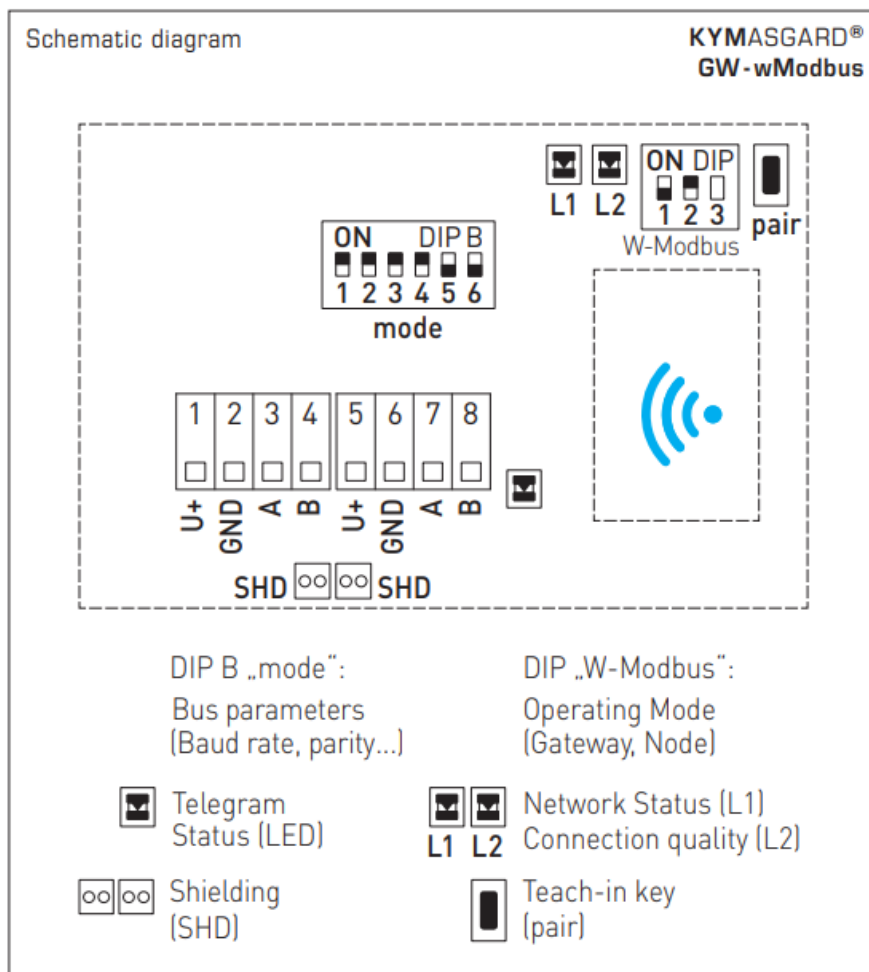
- Power supply: 24 V AC ($\pm 20\%$); 15...36 V DC
- Power consumption: $< 1.0\text{ W} / 24\text{ VDC}$; $< 1.4\text{ VA} / 24\text{ VAC}$
- Communication: Modbus RTU (RS485 interface for RTU cable) and
- W-Modbus ((Wireless Modbus, frequency 2.4 GHz ISM, transmission power 100 mW, AES-128 encrypted)
- Range: max. 500 m / 1640 ft (open field) / approx. 50 – 70 m / 164 – 230 ft (inside buildings) between two wireless nodes
- Wireless nodes: max. 100 wireless nodes
- Operating modes: Gateway Basic function as a base station (DDC/PLC)
- Node Adapter function for max. 1 wired sensor (Type GW-wModbus)
- NodePro Adapter function for max. 16 wired sensors (Type GW-wModbusPro) (can be changed via DIP switch)
- Housing: Plastic, UV-resistant, polyamide material, 30 % glass-globe reinforced, with quick-locking screws (slotted / Phillips head combination), colour traffic white (similar to RAL 9016)
- Housing dimensions: 108 x 78.5 x 43.3 mm / 4.25 x 3.09 x 1.70 in (Tyr 3 without display)
- Cable connection: Cable gland, plastic (2x M 20 x 1.5; with strain relief, exchangeable, inner diameter 8 – 13 mm / 0.3 – 0.5 in)
- Electrical connection: 0.2 – 1.5 mm² / 24 – 16 AWG, using push-in terminals
- Ambient temperature: $-30...+70\text{ }^{\circ}\text{C}$ / $-22...+158\text{ }^{\circ}\text{F}$
- Permitted humidity: $< 95\%$ RH, non-precipitating air
- Protection class: III (according to EN 60 730)
- Protection type: IP 65 (according to EN 60 529)
- Standards: CE-conformity according to Radio Directive 2014 / 53 / EU

Type / WG02	Communication	Operating modes	Item no.
GW-wModbus			
GW-w Modbus	Modbus RTU / W-Modbus (Wireless)	Gateway + Node	1801-1211-1101-000
GW-w Modbus Pro	Modbus RTU / W-Modbus (Wireless)	Gateway + Node Pro	1801-1211-1101-100
Note: “Pro” extends node operation from 1 to a maximum of 16 wired nodes			

Pin assignment



Schematic diagram



FUNCTION

W-Modbus networks can be set up without a Modbus controller connected. The connections of the paired W-Modbus units are retained, even if they are subsequently installed elsewhere!

The KYMASGARD® GW-wModbus (Pro) gateway is compatible with all commercially available W-Modbus units based on Lumenradio MIRA technology. It comprises two units in one. The purpose within the network changes when you switch between the two operating modes. See illustration “Setting up the bus topology”.

Gateway → Base station (DDC/PLC)

“Gateway” operating mode (Master function) serves as a base station for W-Modbus units (max. 100 wireless nodes).

The master gateway is directly connected to a DDC/PLC.

The telegrams from the paired W-Modbus units are received wirelessly and forwarded to the DDC/PLC via RTU cable.

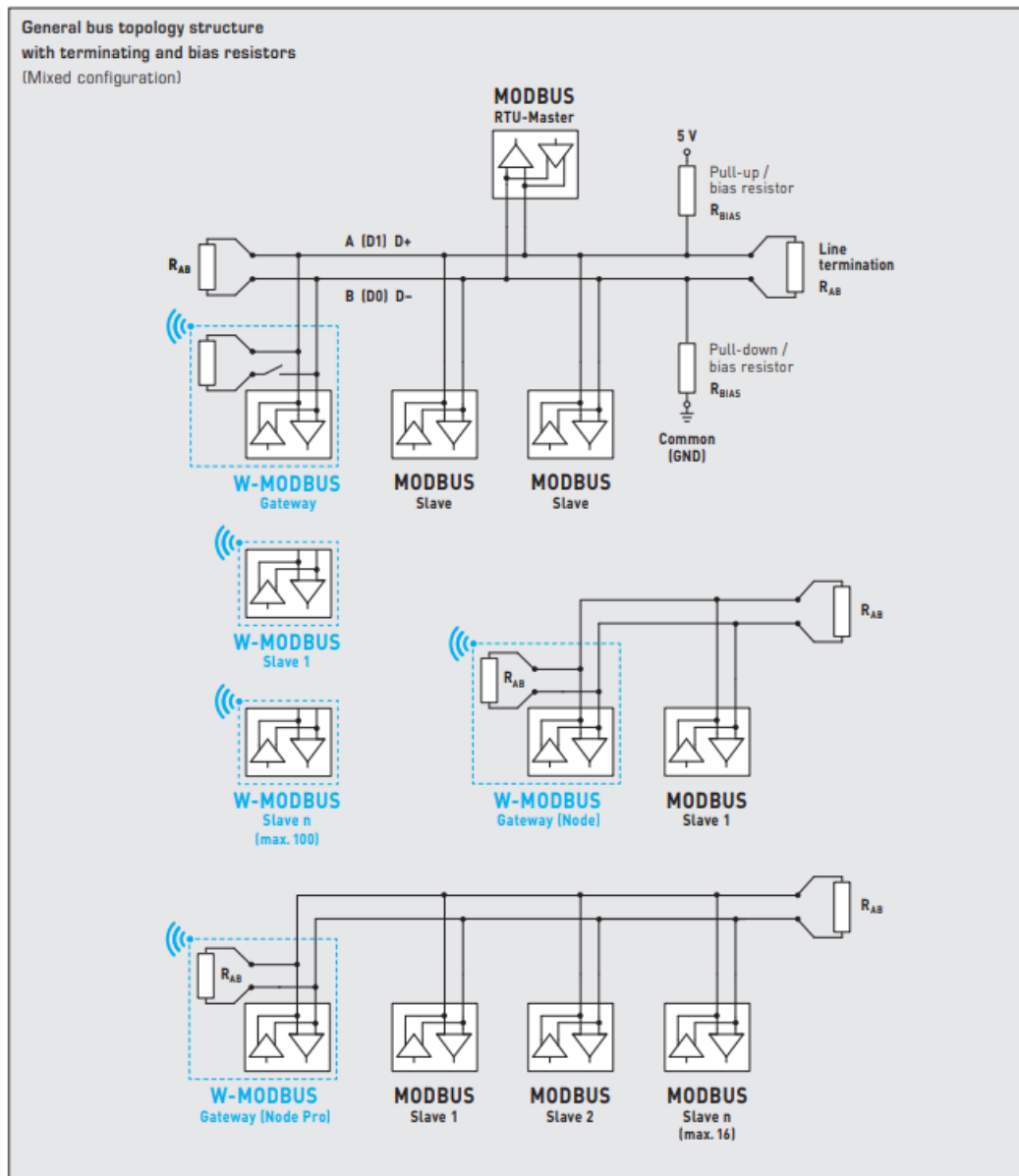
Node(Pro) → wireless adapter (slave)

- The “Node” operating mode (adapter function) serves as a W-Modbus adapter to wirelessly connect a Modbus unit (max. 1 wired node) to a W-Modbus network.
- The “Node Pro” operating mode (adapter function for unit type GW-Modbus-Pro) unit type expands the node operation to a maximum of 16 wired nodes.
- The Node(Pro) gateway (slave) communicates with the paired master gateway (DDC/PLC) like a W-Modbus

sensor.

- The different ways of commissioning the two operating modes are described separately below – please follow the instructions!

Network installation



- The W-Modbus protocol is based on the 2.4 GHz ISM radio band and employs a patented frequency hopping technology to maximise reliability and resistance to interference.
- This means that reliable radio transmission can also be ensured in industrial environments.
- In the W-Modbus network, up to 100 nodes can communicate with each other over a long distance of up to 500 m (open field) using one gateway. A standardised W-Modbus module ensures compatibility with all W-Modbus units.
- The W-Modbus sensors only need to be supplied with power. Only the slave address is configured manually, the transmission parameters (baud rate and parity) are set automatically. No terminating resistor is required.
- The sensor is then paired with a gateway.
- The W-Modbus gateway can be installed anywhere along the Modbus line. It serves as a junction between a wired

- Modbus and radio-based W-Modbus. Even mixed configurations of wired and radio-based Modbus units can be easily integrated into existing network topologies via the W-Modbus gateway.

General configuration

GENERAL

- In the gateway's factory setting, the bus parameters are set to 19200 8E1, and the bus termination is deactivated.
- The gateway is in secure gateway mode ("Gateway" – pairing deactivated).
- Status LED L1 is lit orange and L2 is lit green, telegram LED is lit green.
- The W-Modbus network can be set up without connection to a Modbus RTU bus!
- If Modbus communication needs to be active during commissioning, the Modbus DIP switches must be set to the parameters of the wired Modbus. The gateway can be connected anywhere in an existing Modbus. You might need to activate the terminating resistor.

APP MODE

- The Lumenradio W-Modbus app can access W-Modbus units.
- To do this, Bluetooth must be activated manually on the unit (using the "Pair" push-button).
- The unit then becomes visible and can be connected via the app.
- For further information, see "Commissioning" ("Pair" push-button).

In App mode, the Lumenradio W-Modbus app can access the gateway:

- Firmware updates of the wireless module
- Error detection (duplicate bus addresses, communication errors, etc.)
- Individual unit names
- Checking the network setup
- Documentation of the network setup (PDF)



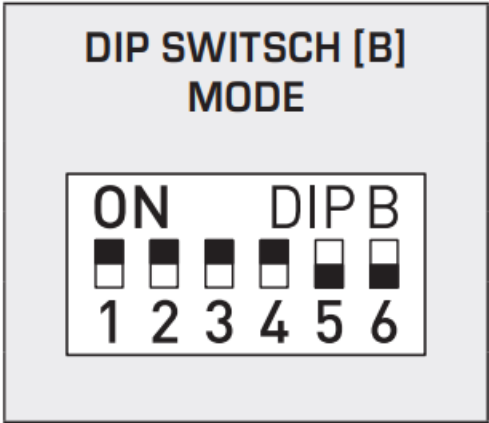
You can find more information via the help function in the app.

- The app is available for Android and Apple mobile devices through the app store.
- Link for Apple Lumenradio W-Modbus app: <https://apps.apple.com/en/app/w-modbus/id6472275984>
- Link for Android Lumenradio W-Modbus app: <https://play.google.com/store/apps/details?>



BUS PARAMETERS

Baudrate (selectable)	DIP 1	DIP 2
9600 Baud	ON	OFF
19200 Baud (default)	ON	ON
38400 Baud	OFF	ON
reserved	OFF	OFF



Parity (selectable)	DIP 3
EVEN (default) (numbered)	ON
ODD (numbered)	OFF

Parity check (on / off)	DIP 4
active (default) (1 stop bit)	ON
inactive (no parity) (2 stop bits)	OFF

8N1 mode (on / off)	DIP 5
active	ON
inactive (default)	OFF

Bus termination (on/off)	DIP 6
active	ON
inactive (default)	OFF

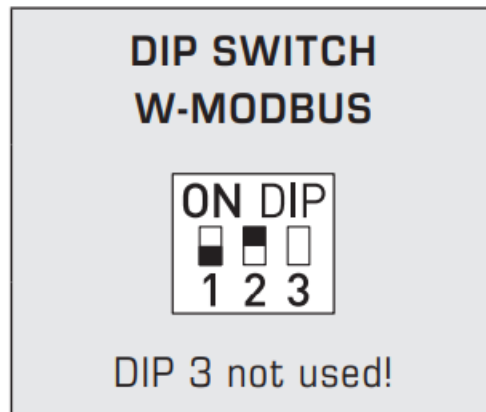
- The baud rate (speed of transmission) is set at DIP switches 1 and 2 of DIP switch block [B].
- Selectable are 9600 baud, 19200 baud (default), or 38400 baud – see table!
- Parity is set at DIP switch 3 of DIP switch block [B].
- Selectable are EVEN (default) or ODD – see table!
- Parity check is activated via DIP switch 4 of DIP switch block [B].
- Selectable are active (1 stop bit) (default), or inactive (2 stop bits), i.e. no parity check – see table!
- The 8N1 mode is activated via DIP switch 5 of DIP switch block [B].
- The functionality of DIP switch 3 (parity) and DIP switch 4 (parity check) of DIP switch block [B] is therefore deactivated. Selectable are 8N1 active or inactive (default) – see table !.
- Bus termination is activated via DIP switch 6 of DIP switch block [B].
- Selectable are active (bus termination resistance of 120 Ohm), or inactive (no bus termination) – see table!

Master Gateway (DDC/PLC)

DIP SWITCH

Connection type (Pairing mode)	DIP 1
Pairing active (open connection)	O N
Pairing deactivated (default) (secure connection)	OFF

Operating mode (standard mode)	DIP 2
Gateway (default) (base station)	O N
Node(Pro) (wireless adapter)	OFF



The connection type is set via pos. 1 of the “W-Modbus” DIP switch – see table!
The operating mode is set via pos. 2 of the “W-Modbus” DIP switch – see table!
To use it as a master gateway (base station on DDC/PLC), DIP 2 must be set to ON.
If the unit is switched over, it is unpaired and must be paired again in the network.
Pos. 3 of the “W-Modbus” DIP switch is not used.

STATUS LEDs

The two LEDs L1 and L2 (on the left of the “Pair” push-button) indicate the wireless state of the sensor. They activate after the system is switched on and deactivate automatically after approx. 30 minutes.
If required, the LEDs can be reactivated manually using the “Pair” push-button.

TELEGRAM LED

The LED (on the right of the push-in terminals) flashes to indicate that Modbus communication is active. If there is a fault in the Modbus cables, the LED lights up red steadily.

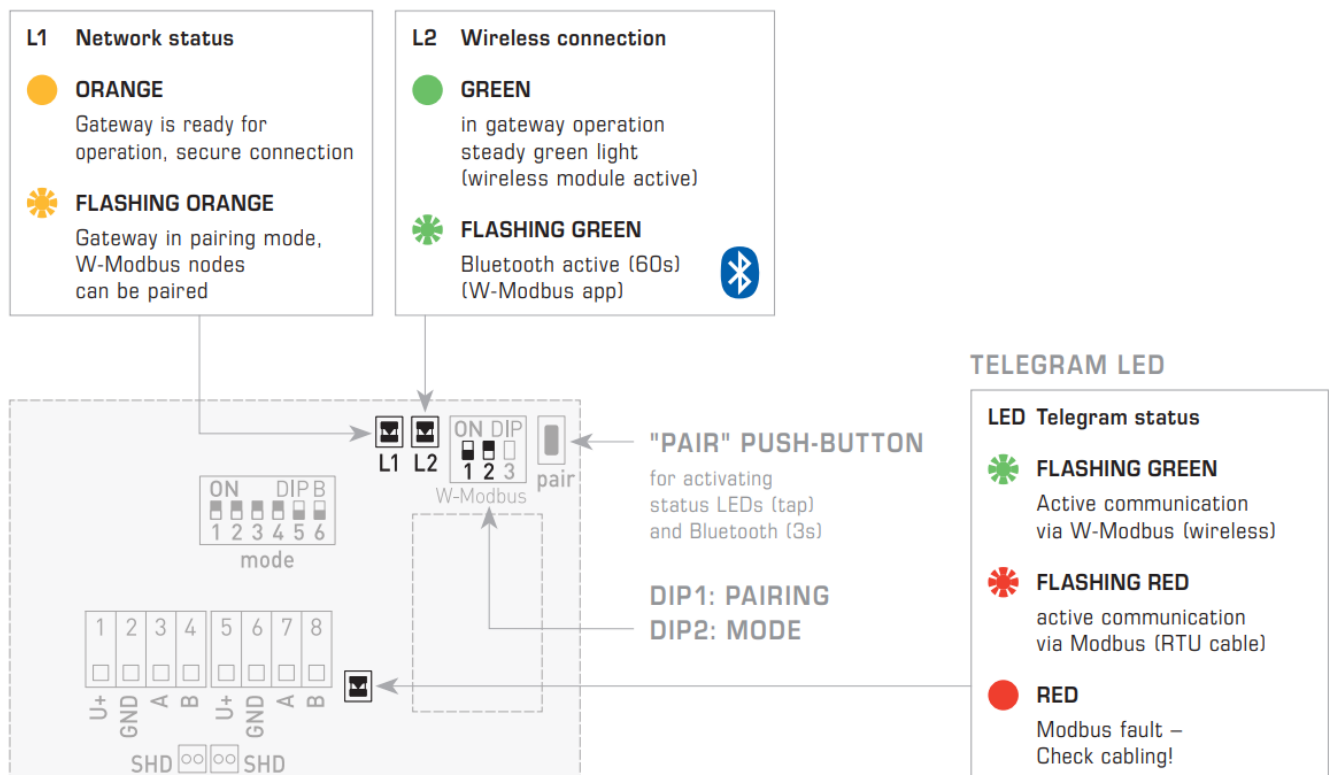
“PAIR” PUSH-BUTTON

Different functions are assigned to the “Pair” push-button.

Briefly pressing the button (tap) activates the status LEDs for approx. 30 minutes.

A long press of the button (approx. 3 seconds) activates Bluetooth. The status LED L2 flashes green. The unit remains visible for approx. 60 seconds and can be detected by the Lumenradio W-Modbus app. The connection remains active until you press “Disconnect” in the app or activate Pairing mode on the unit.

STATUS LEDS



Master Gateway (DDC/PLC)

PAIRING “Gateway”

The network can be set up without connection to a Modbus RTU bus. If you intend testing Modbus communication during commissioning, you must set the Modbus parameters of the wired Modbus via DIP switches.

To pair a W-Modbus unit to a Gateway, you must set both units to Pairing mode. This also applies if the unit needs to be integrated into an existing network. Nodes that have already been paired are also automatically set to Pairing mode and paired again. Only one single master gateway (DDC/PLC) may be in Pairing mode at any one time in the immediate vicinity (wireless range)!

The master gateway (DDC/PLC) – hereinafter referred to as the Master Gateway – is paired in three simple steps:

1. Activate pairing (open the connections)

The Master Gateway is activated via DIP switches:

DIP1 → ON (pairing active – open connection – status LED L1 flashes orange),

DIP 2 must stay on ON.

Please refer to the unit-specific operating instructions for the procedure for activating or deactivating Pairing mode on the W-Modbus unit.



2. Pair the units (set up a connection)

All W-Modbus units in active Pairing mode automatically search for a Master Gateway that is also set to pairing. This initial connection setup can take approx. 1 – 2 minutes.

Now there is a temporary connection that can be secured as described in step 3. After approx. 2 – 3 minutes, it is already possible to test the Modbus communication and exchange data in this phase.

3. Deactivate pairing (secure the connections)

After all units have paired successfully, the user must manually terminate pairing on the Master Gateway: DIP1 → OFF (pairing deactivated – secure connection – Status-LED L1 lit orange)

This automatically deactivates the paired nodes. The W-Modbus units then perform an auto-restart and establish a secure connection. Modbus communication is re-established within 2 – 3 minutes.

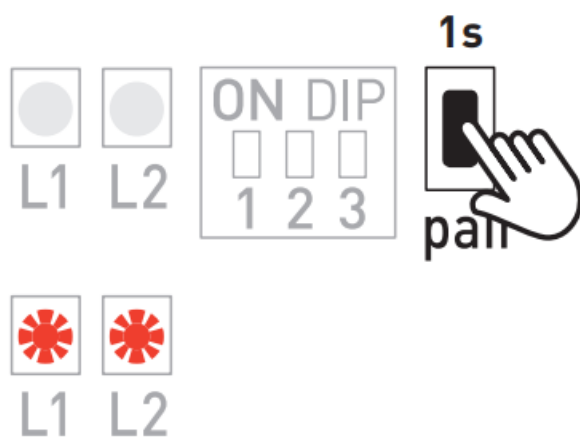
A permanent connection is now established and remains even after the unit is restarted. Data exchange can begin in standard mode.



NOTES

Status LEDs turn off (LED L1 and L2 turn off)

- LEDs deactivate automatically after a 30-minute time-out.
The LEDs can be reactivated using the pair button (short push of button).
Error message (LEDs L1 and L2 flashing red)
- Perform a reset: disconnect the unit from the power supply for approx. 1 minute, then switch it on again. If the error persists, please contact S+S Technical Support.

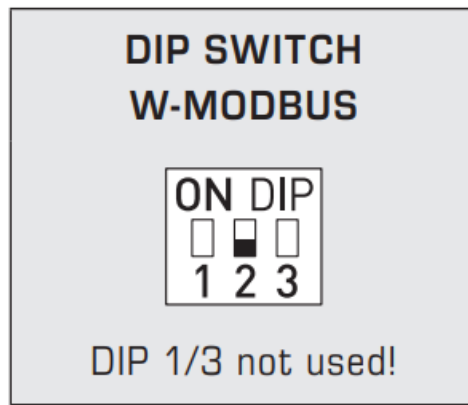


Node(Pro) Gateway (slave)

DIP SWITCH

Not functional in Node(Pro) mode	DIP 1
—	ON
—	OFF

Operating mode (standard mode)	DIP 2
Gateway (default) (base station)	ON
Node(Pro) (wireless adapter)	OFF



The operating mode is set via pos. 2 of the “W-Modbus” DIP switch – see table!
For use as a Node(Pro) gateway (wireless adapter for wired Modbus units), DIP 2 must be set to OFF.
If the unit is switched over, it is unpaired and must be paired again in the network.
Pos. 1 and 3 of the “W-Modbus” DIP switch are not used in Node mode.

STATUS LEDS

The two LEDs L1 and L2 (on the left of the “Pair” push-button) indicate the wireless state of the sensor. They activate after the system is switched on and deactivate automatically after approx. 30 minutes.
If required, the LEDs can be reactivated manually using the “Pair” push-button.

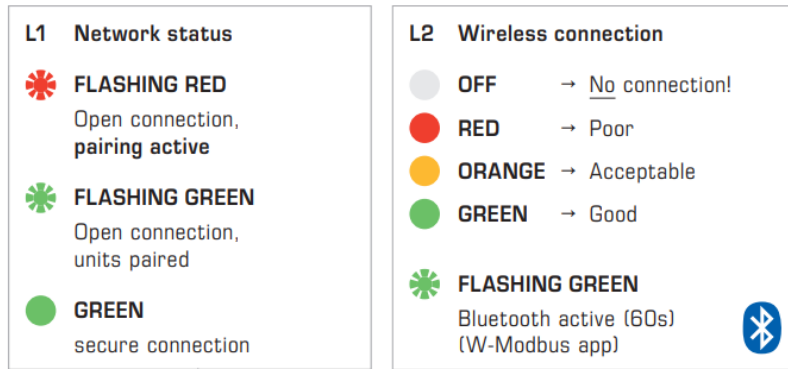
TELEGRAM LED

The LED (on the right of the push-in terminals) flashes to indicate that Modbus communication is active. If there is a fault in the Modbus cables, the LED lights up red steadily.

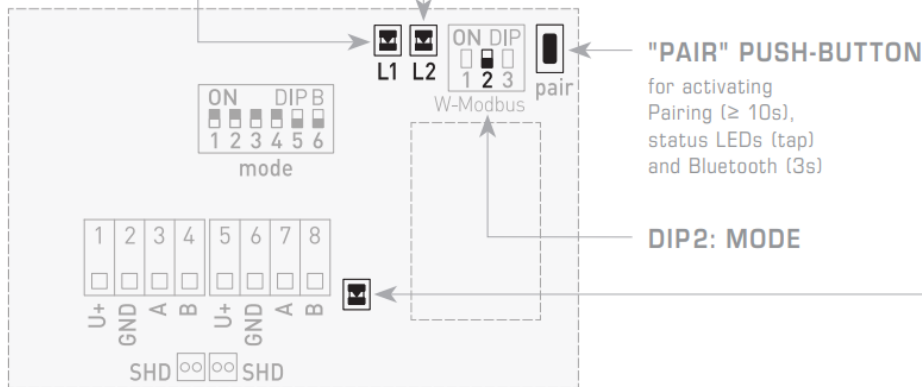
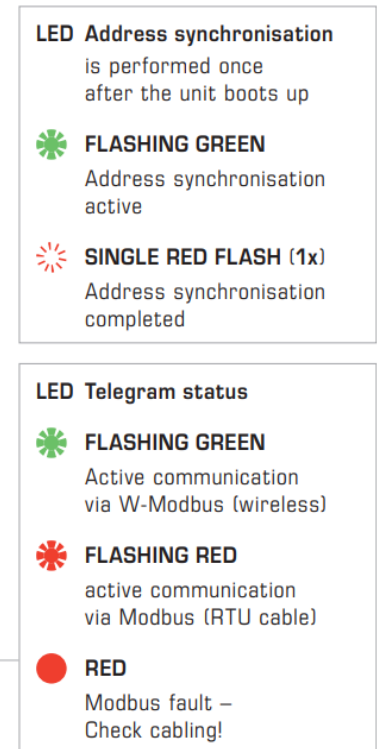
“PAIR” PUSH-BUTTON

Different functions are assigned to the “Pair” push-button.
Briefly pressing the button (tap) activates the status LEDs for approx. 30 minutes.
A long press of the button (≥ 10 seconds) activates Pairing.
Deactivation takes place automatically when you exit the Pairing mode on the master gateway.
A long press of the button (approx. 3 seconds) activates Bluetooth. The status LED L2 flashes green. The unit remains visible for approx. 60 seconds and can be detected by the Lumenradio W-Modbus app. The connection remains active until you press “Disconnect” in the app or activate Pairing mode on the unit.

STATUS LEDS



TELEGRAM LED



MODBUS UNIT CONNECTION

The number of nodes depends on the unit type (1 node with GW-Modbus – max. 16 nodes with GW-ModbusPro). The wired Modbus node is connected to Terminals A and B of the Node(Pro) gateway (DIP2 → OFF). DIP switches [B] are used for setting the bus parameters. These may differ from the settings on the DDC/PLC. Each of the connected Modbus units must be set to a unique bus address. After pairing the unit with the master gateway, you can change the bus address or connect additional nodes to the NodePro.

PAIRING “Node(Pro)”

To pair a Node(Pro) gateway (slave) to a master gateway (DDC/PLC), both units must be set to Pairing mode. This also applies if the unit needs to be integrated into an existing network. Nodes that have already been paired are also automatically set to Pairing mode and paired again. Only one master gateway may be in Pairing mode at any one time in the immediate vicinity (wireless range)! The Node(Pro) gateway can be optionally paired as standalone.

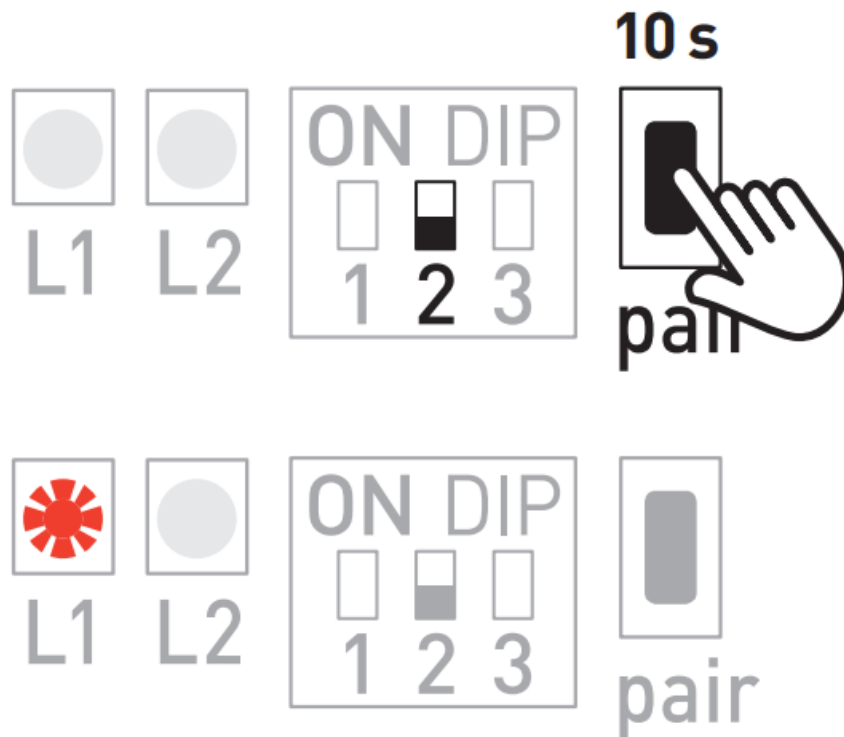
The Node(Pro) gateway (slave) – hereinafter referred to as the node-unit – is paired in three simple steps:

1. Activate pairing (open the connections)

To activate “Pair mode” on the node unit, press the “Pair” push-button (long push of button for ≥ 10 seconds – DIP 2 must remain on OFF).

The status LEDs indicate that Pairing mode is active: L1 flashes red, L2 is turned off.

The process for activating or deactivating Pairing mode on the master gateway (DDC/PLC) can be found in the unit-specific operating instructions.



2. Pair the units (set up a connection)

When Pairing mode is active, the Node unit automatically searches for a master gateway that is set to Pairing. This process can take approx. 1 – 2 minutes.

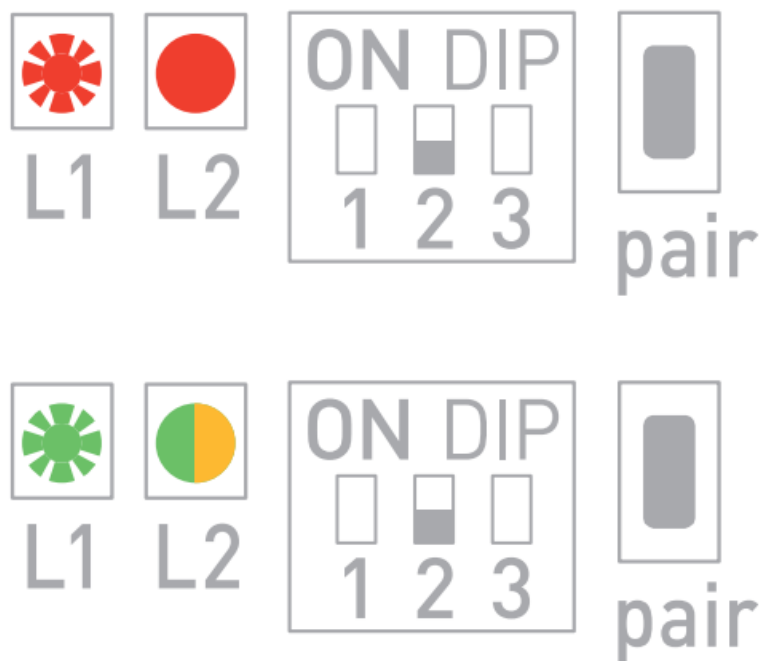
The status LEDs indicate the running processes: L1 flashes red – L2 is lit red

The status LEDs then indicate successful pairing: L1 flashes green – L2 is lit green or orange (depending on the quality of the wireless connection).

Note! If the unit is paired with a master gateway from a third-party provider, the status LEDs indicate using different colours: L1 continues flashing red – L2 is lit green.

Now there is a temporary connection that can be secured as described in step 3.

After approx. 2 – 3 minutes, you can already test the Modbus communication and exchange data in this phase.



3. Deactivate pairing (secure the connections)

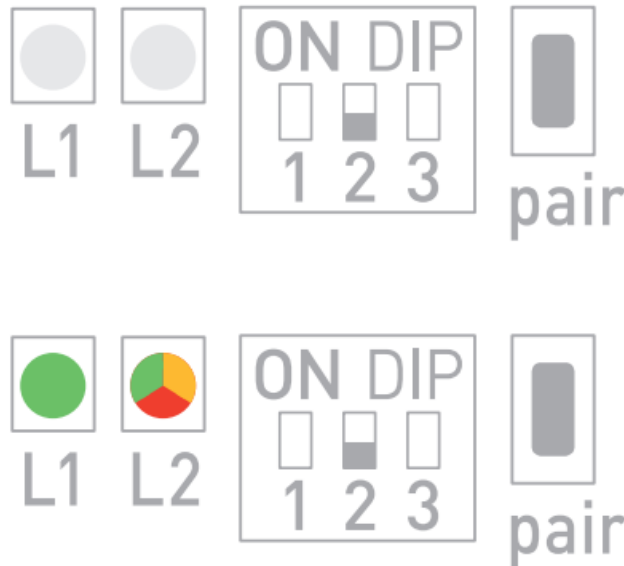
After all units have paired successfully, the user must manually terminate pairing on the master gateway. This also terminates pairing on all paired units.

The node unit then performs an auto-restart and establishes a secure connection. Modbus communication is re-established within 2 – 3 minutes.

The status LEDs indicate the ongoing restart: first, L1 and L2 turn off.

The status LEDs then indicate that the connection is secure: L1 is lit green – L2 is lit green, orange or red (depending on the quality of the wireless connection).

A permanent connection is now established and remains even after the unit is restarted. Data exchange can begin in standard mode.



Important notes

S+S Regeltechnik GmbH hereby declares that the radio equipment type GW-wModbus complies with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address:

www.spluss.de/180112111101000/

Our "General Terms and Conditions for Business" together with the "General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry" (ZVEI conditions) including supplementary clause "Extended Retention of Title" apply as the exclusive terms and conditions.

In addition, the following points are to be observed:

- A suitable weather and sun protection hood must be used when installed outdoors.
- To avoid damages and errors at the device (e.g. by voltage induction) shielded cables are to be used, laying parallel with current-carrying lines is to be avoided, and EMC directives are to be observed.
- This device shall only be used for its intended purpose. Respective safety regulations issued by the VDE, the states, their control authorities, the TÜV and the local energy supply company must be observed. The purchaser has to adhere to the building and safety regulations and has to prevent perils of any kind.
- No warranties or liabilities will be assumed for defects and damages arising from improper use of this device.
- Consequential damages caused by a fault in this device are excluded from warranty or liability.
- These devices must be installed and commissioned by authorised specialists.
- The technical data and connecting conditions of the mounting and operating instructions delivered together with the device are exclusively valid. Deviations from the catalogue representation are not explicitly mentioned and

are possible in terms of technical progress and continuous improvement of our products.

- In case of any modifications made by the user, all warranty claims are forfeited.
- This device must not be installed close to heat sources (e.g. radiators) or be exposed to their heat flow. Direct sun irradiation or heat irradiation by similar sources (powerful lamps, halogen spotlights) must absolutely be avoided.
- Operating this device close to other devices that do not comply with EMC directives may influence functionality.
- This device must not be used for monitoring applications, which serve the purpose of protecting persons against hazards or injury,
or as an EMERGENCY STOP switch for systems or machinery, or for any other similar safety-relevant purposes.
- Dimensions of enclosures or enclosure accessories may show slight tolerances on the specifications provided in these instructions.
- Modifications of these records are not permitted.
- In case of a complaint, only complete devices returned in original packing will be accepted.

These instructions must be read before installation and commissioning and all notes provided therein are to be regarded!

Safety notes

- Devices must only be connected to safety extra-low voltage and under dead-voltage condition.
- If power supplies with an output power greater than 15 W are used, additional safety measures (circuit breakers) must be implemented to limit the power output in the event of a fault.
- Commissioning is mandatory and may only be performed by qualified personnel!



WS-04

Weather and
sun protection
(optional)

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Subject to errors and technical changes. All statements and data herein represent our best knowledge at date of publication. They are only meant to inform about our products and their application potential, but do not imply any warranty as to certain product characteristics. Since the devices are used under a wide range of different

conditions and loads beyond our control, their particular suitability must be verified by each customer and/or end user themselves. Existing property rights must be observed. We warrant the faultless quality of our products as stated in our General Terms and Conditions.

Bus address, binary coded

1	00000000	51	00000000	101	00000000	151	00000000	201	00000000
2	00000001	52	00000001	102	00000001	152	00000001	202	00000001
3	00000010	53	00000010	103	00000010	153	00000010	203	00000010
4	00000011	54	00000011	104	00000011	154	00000011	204	00000011
5	00000100	55	00000100	105	00000100	155	00000100	205	00000100
6	00000101	56	00000101	106	00000101	156	00000101	206	00000101
7	00000110	57	00000110	107	00000110	157	00000110	207	00000110
8	00000111	58	00000111	108	00000111	158	00000111	208	00000111
9	00001000	59	00001000	109	00001000	159	00001000	209	00001000
10	00001001	60	00001001	110	00001001	160	00001001	210	00001001
11	00001010	61	00001010	111	00001010	161	00001010	211	00001010
12	00001011	62	00001011	112	00001011	162	00001011	212	00001011
13	00001100	63	00001100	113	00001100	163	00001100	213	00001100
14	00001101	64	00001101	114	00001101	164	00001101	214	00001101
15	00001110	65	00001110	115	00001110	165	00001110	215	00001110
16	00001111	66	00001111	116	00001111	166	00001111	216	00001111
17	00010000	67	00010000	117	00010000	167	00010000	217	00010000
18	00010001	68	00010001	118	00010001	168	00010001	218	00010001
19	00010010	69	00010010	119	00010010	169	00010010	219	00010010
20	00010011	70	00010011	120	00010011	170	00010011	220	00010011
21	00010100	71	00010100	121	00010100	171	00010100	221	00010100
22	00010101	72	00010101	122	00010101	172	00010101	222	00010101
23	00010110	73	00010110	123	00010110	173	00010110	223	00010110
24	00010111	74	00010111	124	00010111	174	00010111	224	00010111
25	00011000	75	00011000	125	00011000	175	00011000	225	00011000
26	00011001	76	00011001	126	00011001	176	00011001	226	00011001
27	00011010	77	00011010	127	00011010	177	00011010	227	00011010
28	00011011	78	00011011	128	00011011	178	00011011	228	00011011
29	00011100	79	00011100	129	00011100	179	00011100	229	00011100
30	00011101	80	00011101	130	00011101	180	00011101	230	00011101
31	00011110	81	00011110	131	00011110	181	00011110	231	00011110
32	00011111	82	00011111	132	00011111	182	00011111	232	00011111
33	00100000	83	00100000	133	00100000	183	00100000	233	00100000
34	00100001	84	00100001	134	00100001	184	00100001	234	00100001
35	00100010	85	00100010	135	00100010	185	00100010	235	00100010
36	00100011	86	00100011	136	00100011	186	00100011	236	00100011
37	00100100	87	00100100	137	00100100	187	00100100	237	00100100
38	00100101	88	00100101	138	00100101	188	00100101	238	00100101
39	00100110	89	00100110	139	00100110	189	00100110	239	00100110
40	00100111	90	00100111	140	00100111	190	00100111	240	00100111
41	00101000	91	00101000	141	00101000	191	00101000	241	00101000
42	00101001	92	00101001	142	00101001	192	00101001	242	00101001
43	00101010	93	00101010	143	00101010	193	00101010	243	00101010
44	00101011	94	00101011	144	00101011	194	00101011	244	00101011
45	00101100	95	00101100	145	00101100	195	00101100	245	00101100
46	00101101	96	00101101	146	00101101	196	00101101	246	00101101
47	00101110	97	00101110	147	00101110	197	00101110	247	00101110
48	00101111	98	00101111	148	00101111	198	00101111		
49	00110000	99	00110000	149	00110000	199	00110000		
50	00110001	100	00110001	150	00110001	200	00110001		

Frequently Asked Questions

- **Q: What is the range of the wireless connection?**

A: The wireless range is specified by the manufacturer and is suitable for typical installations within a specified distance.


- **Q: How many devices can be connected to the gateway?**

A: The gateway supports multiple nodes and can handle up to 16 connected devices in Node Pro mode.

- **Q: How do I adjust the communication settings?**

A: Use the DIP switches to configure bus parameters, baud rate, parity, and other communication settings as needed.

Documents / Resources

	<p>S S REGELTECHNIK GW-wMODBUS-RAG Gateway with Modbus Module Wireless [pdf] Instruction Manual GW-wMODBUS-RAG, 6000-3610-0000-1XX, GW-wMODBUS-RAG Gateway with Modbus Module Wireless, GW-wMODBUS-RAG, Gateway with Modbus Module Wireless, Modbus Module Wireless, Module Wireless</p>
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References

- [S S Regeltechnik](#)
- [Gateway with W-Modbus module GW-wModbus](#)
- [User Manual](#)

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