

# USER MANUAL

**R-GWR**

**R-GWR-IP**

**R-GWR-S**

**INDUSTRIAL ETHERNET RADIO GATEWAY  
RADIO SENSORS**



**SENECA S.r.l.**

**Via Austria 26 – 35127 – Z.I. - PADOVA (PD) - ITALY**

**Tel. +39.049.8705355 – 8705355 Fax +39 049.8706287**

**[www.seneca.it](http://www.seneca.it)**



**ORIGINAL INSTRUCTIONS**

**CAUTION**

SENECA does not guarantee that all specifications and/or aspects of the product and firmware, included in them, will meet the requirements of the actual final application even if the product referred to in this documentation is in compliance with the technological state of the art.

The user assumes full responsibility and/or risk with regard to the configuration of the product to achieve the intended results in relation to the specific installation and/or end application.

SENECA may, with prior agreement, provide consultancy services for the successful completion of the final application, but under no circumstances can it be held responsible for its proper functioning.

The SENECA product is an advanced product, the operation of which is specified in the technical documentation supplied with the product itself and/or can be downloaded, if desired prior to purchase, from the [www.seneca.it](http://www.seneca.it) website.

SENECA has a policy of continuous development and accordingly reserves the right to make and/or introduce - without prior notice - changes and/or improvements to any product described in this documentation.

The product described in this documentation may solely and exclusively be used by personnel qualified for the specific activity and in accordance with the relevant technical documentation, with particular attention being paid to the safety instructions.

Qualified personnel means personnel who, on the basis of their training, competence and experience, are able to identify risks and avoid potential hazards that could occur during the use of this product.

SENECA products may only be used for the applications and in the manner described in the technical documentation relating to the products themselves.

To ensure proper operation and prevent the occurrence of malfunctions, the transport, storage, installation, assembly, maintenance of SENECA products must comply with the safety instructions and environmental conditions specified in this documentation.

SENECA's liability in relation to its products is governed by the general conditions of sale, which can be downloaded from [www.seneca.it](http://www.seneca.it).

Neither SENECA nor its employees, within the limits of applicable law, will in any case be liable for any lost profits and/or sales, loss of data and/or information, higher costs incurred for goods and/or replacement services, damage to property and/or persons, interruption of activities and/or provision of services, any direct, indirect, incidental, pecuniary and non-pecuniary, consequential damages in any way caused and/or caused, due to negligence, carelessness, incompetence and/or other liabilities arising from the installation, use and/or inability to use the product.

**CONTACT US**

Supporto tecnico

[supporto@seneca.it](mailto:supporto@seneca.it)

Informazioni sul prodotto

[commerciale@seneca.it](mailto:commerciale@seneca.it)

This document is the property of SENECA srl.  
Copies and reproduction are prohibited unless authorised.

## Document revisions

DATE	REVISION	NOTES	AUTHOR
24/02/2021	0	First revision	MM
24/03/2021	1	Removed Easy Setup2 software and corrected the name of Seneca Discovery Device	AZ
06/12/2021	2	Aggiunti registri dello status batteria sensori	AZ
17/05/2024	3	Aggiunto sensore R-GWR-IP-2 e curva di errore del sensore di temperatura	MM

TABLE OF CONTENTS

- 1. INTRODUCTION.....5**
  - 1.1. DESCRIPTION.....5
  - 1.2. COMMUNICATION PORT SPECIFICATIONS.....6
  
- 2. CONNECTION OF THE DEVICES TO A NETWORK .....7**
  - 2.1. CONNECTION OF THE DEVICE TO A NETWORK .....7
  
- 3. OPERATING PRINCIPLE.....8**
  - 3.1. SENDING DATA FROM THE SENSORS TO THE R-GWR GATEWAY .....8
  - 3.2. COMMUNICATION WITH THE R-GWR GATEWAY.....8
  - 3.3. AVAILABLE MEASUREMENTS .....8
  
- 4. WEB SERVER OF THE GATEWAY DEVICE .....9**
  - 4.1. ACCESS TO THE WEB SERVER.....9
  - 4.2. DEVICE CONFIGURATION .....10
    - 4.2.1. SETUP SECTION .....10
    - 4.2.2. STATUS SECTION .....12
      - 4.2.2.1. PAIRING A NEW SENSOR.....13
      - 4.2.2.2. MEANING OF THE STATUS PAGE COLUMNS .....13
      - 4.2.2.3. CONFIGURING A SENSOR .....14
    - 4.3. FIRMWARE UPDATE SECTION.....16
    - 4.4. LOCAL TIME SETUP SECTION .....16
  
- 5. BATTERY LIFE.....17**
  
- 6. TEMPERATURE SENSOR ERROR .....17**
  
- 7. RESETTING THE DEVICE TO FACTORY CONFIGURATION.....18**
  
- 8. SUPPORTED MODBUS COMMUNICATION PROTOCOLS .....19**
  - 8.1. SUPPORTED MODBUS FUNCTION CODES.....19
  
- 9. MODBUS REGISTER TABLE .....20**
  - 9.1. R-GWR: MODBUS 4X HOLDING REGISTERS TABLE (FUNCTION CODE 3) .....20
  
- 10. SEARCH AND MODIFICATION OF THE DEVICE IP WITH SENECA DISCOVERY DEVICE .....43**

## 1. INTRODUCTION

 **ATTENTION!**

This user manual extends the information from the installation manual to the configuration of the device. Use the installation manual for more information.

 **ATTENTION!**

In any case, SENECA s.r.l. or its suppliers will not be responsible for the loss of data/revenue or consequential or incidental damages due to negligence or bad/improper management of the device, even if SENECA is well aware of these possible damages.

SENECA, its subsidiaries, affiliates, group companies, suppliers and distributors do not guarantee that the functions fully meet the customer's expectations or that the device, firmware and software should have no errors or operate continuously.

### 1.1. DESCRIPTION

The R-GWR gateway is a device capable of receiving information from radio sensors and making it available both through the S485/RS232 serial port and through the Ethernet port.

Model	Description	Communication protocols
R-GWR	Radio Gateway with 1 serial port and 1 Ethernet port. Max 32 Radio sensors.	Modbus TCP-IP Modbus RTU

## 1.2. COMMUNICATION PORT SPECIFICATIONS

### ETHERNET COMMUNICATION PORTS

<b>Number</b>	1
<b>Type</b>	100 Mbits

### RS232/RS485 COMMUNICATION PORT

<b>Number</b>	1
<b>Baudrate</b>	From 1200 to 115200 bit/s configurable
<b>Parity, Data bit, Stop bit</b>	Configurable

### R-GWR COMMUNICATION PROTOCOLS SUPPORTED

<b>Modbus RTU slave</b>	From RS485/RS232 Port
<b>Modbus TCP-IP</b>	From Ethernet

## 2. CONNECTION OF THE DEVICES TO A NETWORK

### 2.1. CONNECTION OF THE DEVICE TO A NETWORK

The factory configuration of the IP address is:

**Static address: 192.168.90.101**

Therefore, multiple devices must not be inserted on the same network with the same static IP.  
If you want to connect multiple devices on the same network, you need to change the IP address configuration via the web server.

 **ATTENTION!**

**DO NOT CONNECT 2 OR MORE FACTORY-CONFIGURED DEVICES ON THE SAME NETWORK, OR THE  
ETHERNET INTERFACE WILL NOT WORK  
(CONFLICT OF IP ADDRESSES 192.168.90.101)**

If the addressing mode with DHCP is activated and an IP address is not received within 1 minute, the device will set an IP address with a fixed error:

169.254.x.y

Where x.y are the last two values of the MAC ADDRESS.

This way it is possible to install more I/O of the R series and then configure the IP for example with the Seneca Discovery Device software even on networks without a DHCP server.

### 3. OPERATING PRINCIPLE

The radio sensors send data via the Lora radio system. This technology allows you to travel long distances and keep battery consumption at very low levels.

#### 3.1. SENDING DATA FROM THE SENSORS TO THE R-GWR GATEWAY

The radio sensor can send data in two ways:

- 1) Timed
- 2) Timed + Event

In mode 1 the sensor sends data with a configurable time interval.

In mode 2 the sensor sends the data with a configurable time interval but, in the event of a digital input event, it immediately sends the data.

Each R-GWR gateway can manage up to a maximum of 32 sensors.

#### 3.2. COMMUNICATION WITH THE R-GWR GATEWAY

When the gateway receives a packet from an associated sensor it responds with an acknowledge packet.

If the acknowledge packet is not received, the sensor adds a random time (from 1 to 8 seconds) to the next sending.

If sending an alarm packet (and if sending on "alarm" event is enabled) the sensor makes 5 attempts with a random delay between them before returning to low consumption again.

When the R-GWR gateway sends the acknowledge packet, it also appends the current configuration (so if you change the sensor configuration in the gateway this will be sent with the next communication).

When the ALARM parameter is active, an IN0 or IN1 input event immediately activates the sending of the packet.

 **ATTENTION!**

**IT IS ALWAYS POSSIBLE TO FORCE SENDING CURRENT DATA FROM THE SENSOR TO THE GATEWAY BY PRESSING THE IN3 PAIRING BUTTON.**

 **ATTENTION!**

**IF THE R-GWR GATEWAY REMAINS OFF FOR A LONG TIME, IT IS NECESSARY TO TURN OFF THE RADIO SENSORS IN ORDER TO NOT DISCHARGE THE BATTERIES**

#### 3.3. AVAILABLE MEASUREMENTS



Depending on the sensor model, the following measurements are available:

<b>SENSOR</b>	<b>TEMP</b>	<b>HUMIDITY</b>	<b>INO</b>	<b>IN1</b>	<b>IN2</b>	<b>IN3</b>	<b>BATTERY</b>
Sensor model	Temperature measurement in °C	Relative humidity measurement in %	Configurable digital/ analog input	Configurable digital input	Digital input Tamper	Pairing button status	Battery status (charged/discharged)
R-GWR-IP-1	Yes	Yes	Can be configured as 0-30V analog measurement or counter	No	No	Yes	Yes
R-GWR-IP-2	Yes	Yes	Can be configured as 0-30V analog measurement or counter	No	No	Yes	Yes
R-GWR-S-1	Yes	Yes	Can be configured as 0-30V analog measurement or counter or Level 1 water	Status of the reed relay or Level 2 water	Yes Connected to the lid	Yes	Yes

## 4. WEB SERVER OF THE GATEWAY DEVICE

### 4.1. ACCESS TO THE WEB SERVER

Access to the web server takes place using a web browser and entering the IP address of the device. To find out the IP address of the device, use the "search" function of the Seneca Discovery Device software.

On first access the user name and password will be requested. The default values are:

Username: admin

Password: admin

 **ATTENTION!**

AFTER THE FIRST ACCESS CHANGE USER NAME AND PASSWORD IN ORDER TO PREVENT ACCESS TO THE DEVICE TO UNAUTHORIZED PEOPLE.

 **ATTENTION!**

IF THE PARAMETERS TO ACCESS THE WEB SERVER HAVE BEEN LOST, IT IS NECESSARY TO RESET THE FACTORY-SET CONFIGURATION (SEE CHAPTER 7)

## 4.2. DEVICE CONFIGURATION

To configure the device, access the web server and select the section you are interested in.

After a modification to the configuration has been made, the changes must be confirmed with the "**APPLY**" button and the device will restart autonomously.

The **Reboot** button reboots the device (not necessary in the event of a configuration change).

The **Default** button returns all the page parameters to the default settings.

### 4.2.1. SETUP SECTION

At the top of the screen you can load a previous configuration or save it:

---

R-GWR Setup Firmware Version : 1180\_110

---

Local Time : 02/03/2021 14:22:59

---

Nessun file selezionato

---

The meaning of the other fields is as follows:

***DHCP (default: Disabled)***

Sets the DHCP client to get an IP address automatically.

***STATIC IP (default: 192.168.90.101)***

Sets the device static address. Careful not to enter devices with the same IP address into the same network.

***STATIC IP MASK (default: 255.255.255.0)***

Sets the mask for the IP network.

***STATIC GATEWAY (default: 192.168.90.1)***

Sets the gateway address.

***MODBUS TCP-IP PORT (default: 502)***

Sets the port for the TCP-IP Modbus server.

***BAUDRATE MODBUS RTU (SER) (default: 38400 baud)***

Sets the baud rate for the RS485 communication port.

***DATA MODBUS RTU (SER) (default: 8 bit)***

Sets the number of bits for the RS485 communication port.

***PARITY MODBUS RTU (SER) (default: None)***

Sets the parity for the RS485 communication port.

***STOP BIT MODBUS RTU (SER) (default: 1 bit)***

Sets the number of stop bits for the RS485 communication port.

***PORT TIMEOUT [ms]***

Sets the maximum timeout to receive a complete and valid modbus packet from the serial port.

***IP CHANGE DISCOVERY (default: Disabled)***

Allows you to enable or not the IP configuration change from the Seneca Discovery Device software.

***SYNC CLOCK UPDATE EVERY (default: Day)***

Sets the clock synchronization time from the NTP server.

***NTP SERVER 1 ADDRESS***

Sets the NTP server from which to synchronize the date/time.

### **NTP SERVER 2 ADDRESS**

Sets the backup NTP server from which to synchronize the date/time.

### **DAYLIGHT SAVING TIME**

Selects whether or not to activate the automatic switchover to winter/summer time

### **GMT**

Sets the time zone

### **WEB SERVER USER NAME (default: admin)**

Sets the user name to access the web server.

### **CONFIGURATION/WEB SERVER PASSWORD (default: admin)**

Sets the password to access the webserver and to read/write the configuration (if enabled).

### **WEB SERVER PORT (default: 80)**

Sets the communication port for the web server.

## 4.2.2. STATUS SECTION

In the Status section, you can view the data from the paired radio sensors in real time, pair new sensors, configure them and remove them from the pairing.

START NEW SENSOR PAIRING

SENSOR NR	SENSOR ADDR	SIGNAL	LAST SEND	TEMP [°C]	HUMIDITY [%]	ANALOG COUNTER	IN0	IN1	IN2	IN3	BATTERY	STATUS	SETUP	REMOVE
2	515	3/6	26/2/2021 14:12:58	25.8	26.2	0	ON	OFF	OFF	OFF	OK	OK	SETUP	REMOVE
3	511	4/6	26/2/2021 14:12:34	25.0	29.8	0	ON	OFF	OFF	OFF	OK	OK	SETUP	REMOVE
5	524	4/6	26/2/2021 14:12:40	25.2	28.0	0	ON	OFF	OFF	OFF	OK	OK	SETUP	REMOVE

#### 4.2.2.1. PAIRING A NEW SENSOR

To pair one or more new sensors it is necessary to follow the procedure below:

- 1) Power up the R-GWR gateway and the radio sensor
- 2) In the gateway press the "START NEW SENSOR PAIRING" button in the "Status" section of the web server. The STS LED of the gateway will start flashing.
- 3) In the sensor you want to pair, press and hold the pairing button until the red LED lights up (transmission).
- 4) If the green LED of the radio sensor (radio reception) lights up, the association was successful and the new sensor with its data will appear in the "Status" section of the R-GWR gateway web server.
- 5) Press the pairing buttons of each sensor you want to pair as in the previous point
- 6) Once all the sensors have been paired, press the "STOP NEW SENSOR PAIRING" button in the R-GWR web server "status" section.
- 7) The STS LED of the R-GWR gateway stops flashing.

#### 4.2.2.2. MEANING OF THE STATUS PAGE COLUMNS

##### **NR SENSOR**

Represents the sensor number at the time of pairing.

##### **ADDR SENSOR**

Represents the unique address of the sensor (not editable).

##### **LAST SEND**

Represents the date/time of the last sending event.

##### **TEMP, HUMIDITY**

They represent the temperature and humidity values detected by the sensor respectively.

##### **ANALOG COUNTER**

Represents the measurement value of the IN0 input if configured as an analog input (0-30V) or counter.

##### **IN0**

Represents the value of the IN0 input if configured as a digital input.

##### **IN1**

Represents the value of the IN1 input if available in the sensor model in use.

##### **IN2**

Represents the value of the tamper input if available in the sensor model in use.

##### **IN3**

Represents the value of the pairing button.

##### **BATTERY**

Represents the state of the battery: OK if the battery is full, FAIL if the battery needs to be replaced.

##### **STATUS**

Represents the status of the sensor, if the sensor has not sent the data within the FAIL TIMEOUT time, the STATUS field goes into fail.

 **ATTENTION!**

**IT IS POSSIBLE THAT IN SOME SITUATIONS YOU CANNOT DETECT THE CORRECT STATUS OF THE BATTERY, AND THEREFORE IT WILL BE DISCHARGED EVEN IF THE STATUS IS OK.**

**4.2.2.3. CONFIGURING A SENSOR**

At each communication, the gateway sends the current configuration to each radio sensor.

 **ATTENTION!**

**IF YOU CHANGE THE CONFIGURATION OF A SENSOR IN THE R-GWR WEB SERVER, THIS WILL BE SENT TO THE SENSOR IN THE NEXT COMMUNICATION**

To configure a sensor, press the relative "SETUP" button in the "Status" section of the R-GWR web server:

***SEND TIME [ x 30s] (default: 15 minutes)***

Represents the time to send data to the gateway in quanta of 30 seconds

***INPUT 0 (IN0)***

Configures the type of operation of input0 (terminal input):

*ALARM-FALLING EDGE* = Digital input active in the transition from 1-> 0 of the input signal

*ALARM-EDGE* = Digital input active in the passage from 1-> 0 and from 0-> 1 of the input signal

*COUNTER* = The counter on digital input IN0 is activated, the count takes place in the transition from 1-> 0

*WATER SENSOR* = The flood detection mode is activated, it also requires the Water Sensor configuration on INPUT1.

*ANALOG INPUT* = The 0-30V voltage measurement mode is activated from the IN0 input

***INPUT 1 (IN1)***

Configures the type of operation of input1 (digital input / magnetic reed relay):

*ALARM-REED-RISING EDGE* = Digital input active in the transition from 0-> 1 of the input signal

*ALARM-REED-FALLING EDGE* = Digital input active in the transition from 1-> 0 of the input signal

*WATER SENSOR* = The flood detection mode is activated

**ALARM**

Selects whether to activate the radio packet immediate sending mode for inputs IN0 and IN1. It is considered only for the following operating modes:

*INPUT0 = ALARM-RISING EDGE, ALARM-FALLING EDGE or WATER SENSOR*

*INPUT1 = ALARM-REED-RISING EDGE, ALARM-REED-FALLING EDGE or WATER SENSOR*

**LINK TX**

Sets the transmission power of the radio sensor, selectable between:

0 dB (minimum power, maximum battery life) to 14 dB (maximum power, minimum battery life)

AUTO allows you to automatically calculate the optimal transmission power.

In AUTO mode the sensor performs the following procedure:

- 1) The sensor sets the minimum power (0 dB) and, at each sending, raises this power
- 2) When the sensor gets 2 consecutive responses from the gateway it uses this transmission power.

It is therefore possible that there are transmission errors in the initial phase if this mode of operation is used. The procedure can take from 2 to 5 transmissions to be completed and therefore, based on the sending time set, it can last several minutes/hours.

To speed up the procedure, it is possible to force communication in the radio sensor by pressing the pairing button IN3 for at least 5 communications.

To carry out a new procedure it is necessary to follow the following points:

- 1) Set a transmission power other than AUTO (for example the maximum power of 14 dB)
- 2) Forcing a communication in the radio sensor (pressing the IN3 pairing button)
- 3) Set the transmission power back to AUTO
- 4) Forcing a communication in the radio sensor (pressing the IN3 pairing button)

At this point the procedure for calculating the optimal transmission power will begin.

**FAIL MODE**

*LAST VALUE = In case of sensor fail (communication timeout) the gateway keeps the last values sent by the radio sensor*

*LOAD FAIL VALUE = In case of sensor fail (communication timeout) the gateway loads the fail values*

**FAIL TIMEOUT [x 30s]**

Sets the fail time after which, if there has been no communication, the sensor is considered to be in a fail state. Sets this time so that it is always greater than the sensor send time (SEND TIME).

**FAIL VALUE "CNT0/ANG0", "TEMP", "HUMIDITY", "INPUT0", "INPUT1", "INPUT2", "INPUT3"**

Sets the value to load in case of fail in the respective variable

**INHIBITION TIME [min]**

Sets whether or not to enable the inhibition for inputs IN0 and IN1 when they are configured as "alarm" (on event). Any event that occurs before this time has expired from the previous one is ignored. If enabled, it is possible to choose an inhibition time between 5 and 75 minutes.

An event that occurs before the inhibition time has expired reloads the inhibition time. For example, if the inhibition time is 5 minutes and a new event occurs after 4 minutes, the inhibition is reset for another 5 minutes.

#### 4.3. **FIRMWARE UPDATE SECTION**

The "Firmware Update" section allows you to update the device firmware in order to obtain new functions.



**NOT TO DAMAGE THE DEVICE DO NOT REMOVE THE POWER SUPPLY DURING THE FIRMWARE UPDATE OPERATION.**

#### 4.4. **LOCAL TIME SETUP SECTION**

Allows you to set the current date/time in case it is not possible to access the NTP servers.

The date is now kept for a few days even when the device is not powered.



## 5. BATTERY LIFE

Battery life depends on:

- the type of installation.
- the type of configuration.
- the temperature.
- how good the battery is.
- how good the radio link is.

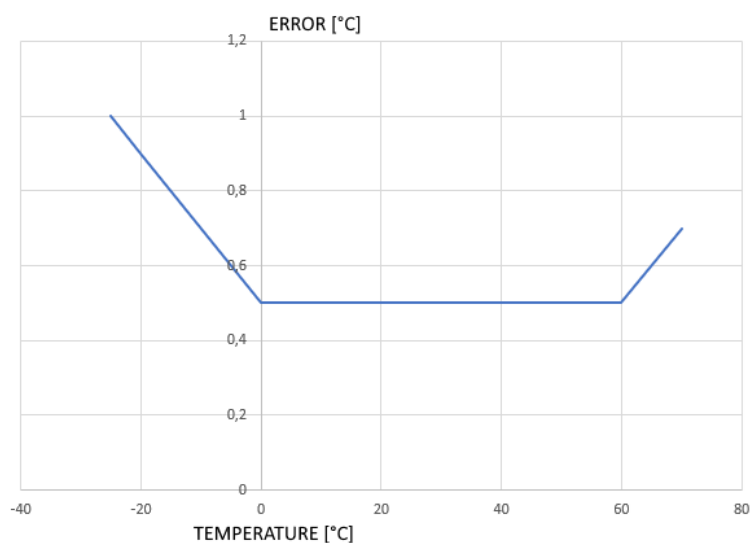
The following table is calculated as follows:

- without sensor input connections
- at a temperature of 20°C
- with signal transmitted at 15 dB (maximum power)

SENSOR	TYPICAL BATTERY CAPACITY AT 20°C	MAXIMUM ESTIMATED LIFE				
		SENDING EVERY 60 MIN	SENDING EVERY 30 MIN	SENDING EVERY 15 MIN	SENDING EVERY 10 MIN	SENDING EVERY 1 MIN
R-GWR-S-1	CR2 900 mAh 3 V	Up to 680 days	Up to 500 days	Up to 320 days	Up to 230 days	Up to 28 days
R-GWR-IP-1	CR123A 1650 mAh 3.6 V	Up to 1280 days	Up to 920 days	Up to 590 days	Up to 430 days	Up to 52 days
R-GWR-IP-2	4400 mAh 3.6 V	Up to 3400 days	Up to 2400 days	Up to 1550 days	Up to 1100 days	Up to 130 days

## 6. TEMPERATURE SENSOR ERROR

The temperature sensor error trend of the R-GWR-IP devices is shown in the following chart:



Where it can be seen that, for example, at 20°C the error is 0.5 °C

## 7. **RESETTING THE DEVICE TO FACTORY CONFIGURATION**

It is possible to reset the device to the factory configuration using the following procedure:

- 1) With the device off, set dip switch SW2 dip 1 and 2 to ON
- 2) Power up the device and wait 10 seconds
- 3) Turn off the device
- 4) With the device off, set dip switch SW2 dip 1 and 2 to OFF
- 5) Power up the device
- 6) The device has now been reset to the factory configuration

## 8. SUPPORTED MODBUS COMMUNICATION PROTOCOLS

The Modbus communication protocols supported are:

- Modbus RTU Slave (from the RS485/RS232 port)
- Modbus TCP-IP Server (from Ethernet port) max 8 client

For more information on these protocols, see the website:

<http://www.modbus.org/specs.php>.

### 8.1. SUPPORTED MODBUS FUNCTION CODES

The following Modbus functions are supported:

- Read Holding Register (function 3)



## ATTENTION!

All 32-bit values are contained in 2 consecutive registers



## ATTENTION!

Any registers with RW\* (in flash memory) can be written up to 10000 times  
The PLC/Master Modbus programmer must not exceed this limit

## 9. MODBUS REGISTER TABLE

The following abbreviations are used in the register tables:

MS = More significant
LS = Less significant
MSW = 16 most significant bits
LSW = 16 least significant bits
RO = Register in read-only
RW = Read/write register
RW * = Register in reading and writing contained in flash memory, writable a maximum of 10000 times.
Unsigned 16 bit = unsigned integer register, can take values from 0 to 65535
Signed 16 bit = signed integer register can take values from -32768 to +32767
Float 32 bits = Single-precision floating point register with 32 bits (IEEE 754) <a href="https://en.wikipedia.org/wiki/IEEE_754">https://en.wikipedia.org/wiki/IEEE_754</a>
BIT = Boolean registry, can be 0 (false) or 1 (true)

### 9.1. R-GWR: MODBUS 4X HOLDING REGISTERS TABLE (FUNCTION CODE 3)

<b>ADDRESS (4x)</b>	<b>OFFSET ADDRESS (4x)</b>	<b>REGISTER</b>	<b>SEN SOR</b>	<b>DESCRIPTION</b>	<b>W/ R</b>	<b>TYPE</b>
<b>40001</b>	0	MACHINE ID	-	Device ID	RO	UNSIGNED 16 BIT
<b>40002</b>	1	FW REVISION	-	FW revision	RO	UNSIGNED 16 BIT
<b>40003</b>	2	HW REVISION	-	HW revision	RO	UNSIGNED 16 BIT
<b>40004</b>	3	RESERVED	-	-	RO	UNSIGNED 16 BIT
<b>40005</b>	4	RESERVED	-	-	RW	UNSIGNED 16 BIT
<b>40006</b>	5	RESERVED	-	-	RW	UNSIGNED 16 BIT
<b>40007</b>	6	RESERVED	-	-	RW	UNSIGNED 16 BIT
<b>40008</b>	7	RESERVED	-	-	RW	UNSIGNED 16 BIT
<b>40009</b>	8	RESERVED	-	-	RW	UNSIGNED 16 BIT
<b>40010</b>	9	RESERVED	-	-	RW	UNSIGNED 16 BIT

<b>ADDRESS (4x)</b>	<b>OFFSET ADDRESS (4x)</b>	<b>REGISTER</b>	<b>SEN SOR</b>	<b>DESCRIPTION</b>	<b>W/ R</b>	<b>TYPE</b>
<b>40550</b>	549	SENSOR SERIAL CODE	1	Sensor serial code MSW	RO	UNSIGNED 32
<b>40551</b>	550			Sensor serial code LSW	RO	
<b>40552</b>	551	SENSOR SIGNAL LEVEL	1	Signal level 0 = minimum 6 = maximum	RO	UNSIGNED 16 BIT
<b>40553</b>	552	SENSOR SERIAL CODE	2	Sensor serial code MSW	RO	UNSIGNED 32
<b>40554</b>	553			Sensor serial code LSW	RO	
<b>40555</b>	554	SENSOR SIGNAL LEVEL	2	Signal level 0 = minimum 6 = maximum	RO	UNSIGNED 16 BIT
<b>40556</b>	555	SENSOR SERIAL CODE	3	Sensor serial code MSW	RO	UNSIGNED 32
<b>40557</b>	556			Sensor serial code LSW	RO	
<b>40558</b>	557	SENSOR SIGNAL LEVEL	3	Signal level 0 = minimum 6 = maximum	RO	UNSIGNED 16 BIT
<b>40559</b>	558	SENSOR SERIAL CODE	4	Sensor serial code MSW	RO	UNSIGNED 32
<b>40560</b>	559			Sensor serial code LSW	RO	
<b>40561</b>	560	SENSOR SIGNAL LEVEL	4	Signal level 0 = minimum 6 = maximum	RO	UNSIGNED 16 BIT
<b>40562</b>	561	SENSOR SERIAL CODE	5	Sensor serial code MSW	RO	UNSIGNED 32
<b>40563</b>	562			Sensor serial code LSW	RO	
<b>40564</b>	563	SENSOR SIGNAL LEVEL	5	Signal level 0 = minimum 6 = maximum	RO	UNSIGNED 16 BIT
<b>40565</b>	564	SENSOR SERIAL CODE	6	Sensor serial code MSW	RO	UNSIGNED 32
<b>40566</b>	565			Sensor serial code LSW	RO	

<b>ADDRESS (4x)</b>	<b>OFFSET ADDRESS (4x)</b>	<b>REGISTER</b>	<b>SEN SOR</b>	<b>DESCRIPTION</b>	<b>W/ R</b>	<b>TYPE</b>
<b>40567</b>	566	SENSOR SIGNAL LEVEL	6	Signal level 0 = minimum 6 = maximum	RO	UNSIGNED 16 BIT
<b>40568</b>	567	SENSOR SERIAL CODE	7	Sensor serial code MSW	RO	UNSIGNED 32
<b>40569</b>	568			Sensor serial code LSW	RO	
<b>40570</b>	569	SENSOR SIGNAL LEVEL	7	Signal level 0 = minimum 6 = maximum	RO	UNSIGNED 16 BIT
<b>40571</b>	570	SENSOR SERIAL CODE	8	Sensor serial code MSW	RO	UNSIGNED 32
<b>40572</b>	571			Sensor serial code LSW	RO	
<b>40573</b>	572	SENSOR SIGNAL LEVEL	8	Signal level 0 = minimum 6 = maximum	RO	UNSIGNED 16 BIT
<b>40574</b>	573	SENSOR SERIAL CODE	9	Sensor serial code MSW	RO	UNSIGNED 32
<b>40575</b>	574			Sensor serial code LSW	RO	
<b>40576</b>	575	SENSOR SIGNAL LEVEL	9	Signal level 0 = minimum 6 = maximum	RO	UNSIGNED 16 BIT
<b>40577</b>	576	SENSOR SERIAL CODE	10	Sensor serial code MSW	RO	UNSIGNED 32
<b>40578</b>	577			Sensor serial code LSW	RO	
<b>40579</b>	578	SENSOR SIGNAL LEVEL	10	Signal level 0 = minimum 6 = maximum	RO	UNSIGNED 16 BIT
<b>40580</b>	579	SENSOR SERIAL CODE	11	Sensor serial code MSW	RO	UNSIGNED 32
<b>40581</b>	580			Sensor serial code LSW	RO	
<b>40582</b>	581	SENSOR SIGNAL LEVEL	11	Signal level 0 = minimum 6 = maximum	RO	UNSIGNED 16 BIT
<b>40583</b>	582	SENSOR SERIAL CODE	12	Sensor serial code MSW	RO	UNSIGNED 32

<b>ADDRESS (4x)</b>	<b>OFFSET ADDRESS (4x)</b>	<b>REGISTER</b>	<b>SEN SOR</b>	<b>DESCRIPTION</b>	<b>W/ R</b>	<b>TYPE</b>
<b>40584</b>	583			Sensor serial code LSW	RO	
<b>40585</b>	584	SENSOR SIGNAL LEVEL	12	Signal level 0 = minimum 6 = maximum	RO	UNSIGNED 16 BIT
<b>40586</b>	585	SENSOR SERIAL CODE	13	Sensor serial code MSW	RO	UNSIGNED 32
<b>40587</b>	586			Sensor serial code LSW	RO	
<b>40588</b>	587	SENSOR SIGNAL LEVEL	13	Signal level 0 = minimum 6 = maximum	RO	UNSIGNED 16 BIT
<b>40589</b>	588	SENSOR SERIAL CODE	14	Sensor serial code MSW	RO	UNSIGNED 32
<b>40590</b>	589			Sensor serial code LSW	RO	
<b>40591</b>	590	SENSOR SIGNAL LEVEL	14	Signal level 0 = minimum 6 = maximum	RO	UNSIGNED 16 BIT
<b>40592</b>	591	SENSOR SERIAL CODE	15	Sensor serial code MSW	RO	UNSIGNED 32
<b>40593</b>	592			Sensor serial code LSW	RO	
<b>40594</b>	593	SENSOR SIGNAL LEVEL	15	Signal level 0 = minimum 6 = maximum	RO	UNSIGNED 16 BIT
<b>40595</b>	594	SENSOR SERIAL CODE	16	Sensor serial code MSW	RO	UNSIGNED 32
<b>40596</b>	595			Sensor serial code LSW	RO	
<b>40597</b>	596	SENSOR SIGNAL LEVEL	16	Signal level 0 = minimum 6 = maximum	RO	UNSIGNED 16 BIT
<b>40598</b>	597	SENSOR SERIAL CODE	17	Sensor serial code MSW	RO	UNSIGNED 32
<b>40599</b>	598			Sensor serial code LSW	RO	
<b>40600</b>	599	SENSOR SIGNAL LEVEL	17	Signal level 0 = minimum 6 = maximum	RO	UNSIGNED 16 BIT

<b>ADDRESS (4x)</b>	<b>OFFSET ADDRESS (4x)</b>	<b>REGISTER</b>	<b>SEN SOR</b>	<b>DESCRIPTION</b>	<b>W/ R</b>	<b>TYPE</b>
<b>40601</b>	600	SENSOR SERIAL CODE	18	Sensor serial code MSW	RO	UNSIGNED 32
<b>40602</b>	601			Sensor serial code LSW	RO	
<b>40603</b>	602	SENSOR SIGNAL LEVEL	18	Signal level 0 = minimum 6 = maximum	RO	UNSIGNED 16 BIT
<b>40604</b>	603	SENSOR SERIAL CODE	19	Sensor serial code MSW	RO	UNSIGNED 32
<b>40605</b>	604			Sensor serial code LSW	RO	
<b>40606</b>	605	SENSOR SIGNAL LEVEL	19	Signal level 0 = minimum 6 = maximum	RO	UNSIGNED 16 BIT
<b>40607</b>	606	SENSOR SERIAL CODE	20	Sensor serial code MSW	RO	UNSIGNED 32
<b>40608</b>	607			Sensor serial code LSW	RO	
<b>40609</b>	608	SENSOR SIGNAL LEVEL	20	Signal level 0 = minimum 6 = maximum	RO	UNSIGNED 16 BIT
<b>40610</b>	609	SENSOR SERIAL CODE	21	Sensor serial code MSW	RO	UNSIGNED 32
<b>40611</b>	610			Sensor serial code LSW	RO	
<b>40612</b>	611	SENSOR SIGNAL LEVEL	21	Signal level 0 = minimum 6 = maximum	RO	UNSIGNED 16 BIT
<b>40613</b>	612	SENSOR SERIAL CODE	22	Sensor serial code MSW	RO	UNSIGNED 32
<b>40614</b>	613			Sensor serial code LSW	RO	
<b>40615</b>	614	SENSOR SIGNAL LEVEL	22	Signal level 0 = minimum 6 = maximum	RO	UNSIGNED 16 BIT
<b>40616</b>	615	SENSOR SERIAL CODE	23	Sensor serial code MSW	RO	UNSIGNED 32
<b>40617</b>	616			Sensor serial code LSW	RO	



<b>ADDRESS (4x)</b>	<b>OFFSET ADDRESS (4x)</b>	<b>REGISTER</b>	<b>SEN SOR</b>	<b>DESCRIPTION</b>	<b>W/ R</b>	<b>TYPE</b>
<b>40618</b>	617	SENSOR SIGNAL LEVEL	23	Signal level 0 = minimum 6 = maximum	RO	UNSIGNED 16 BIT
<b>40619</b>	618	SENSOR SERIAL CODE	24	Sensor serial code MSW	RO	UNSIGNED 32
<b>40620</b>	619			Sensor serial code LSW	RO	
<b>40621</b>	620	SENSOR SIGNAL LEVEL	24	Signal level 0 = minimum 6 = maximum	RO	UNSIGNED 16 BIT
<b>40622</b>	621	SENSOR SERIAL CODE	25	Sensor serial code MSW	RO	UNSIGNED 32
<b>40623</b>	622			Sensor serial code LSW	RO	
<b>40624</b>	623	SENSOR SIGNAL LEVEL	25	Signal level 0 = minimum 6 = maximum	RO	UNSIGNED 16 BIT
<b>40625</b>	624	SENSOR SERIAL CODE	26	Sensor serial code MSW	RO	UNSIGNED 32
<b>40626</b>	625			Sensor serial code LSW	RO	
<b>40627</b>	626	SENSOR SIGNAL LEVEL	26	Signal level 0 = minimum 6 = maximum	RO	UNSIGNED 16 BIT
<b>40628</b>	627	SENSOR SERIAL CODE	27	Sensor serial code MSW	RO	UNSIGNED 32
<b>40629</b>	628			Sensor serial code LSW	RO	
<b>40630</b>	629	SENSOR SIGNAL LEVEL	27	Signal level 0 = minimum 6 = maximum	RO	UNSIGNED 16 BIT
<b>40631</b>	630	SENSOR SERIAL CODE	28	Sensor serial code MSW	RO	UNSIGNED 32
<b>40632</b>	631			Sensor serial code LSW	RO	
<b>40633</b>	632	SENSOR SIGNAL LEVEL	28	Signal level 0 = minimum 6 = maximum	RO	UNSIGNED 16 BIT
<b>40634</b>	633	SENSOR SERIAL CODE	29	Sensor serial code MSW	RO	UNSIGNED 32

<b>ADDRESS (4x)</b>	<b>OFFSET ADDRESS (4x)</b>	<b>REGISTER</b>	<b>SEN SOR</b>	<b>DESCRIPTION</b>	<b>W/ R</b>	<b>TYPE</b>
<b>40635</b>	634			Sensor serial code LSW	RO	
<b>40636</b>	635	SENSOR SIGNAL LEVEL	29	Signal level 0 = minimum 6 = maximum	RO	UNSIGNED 16 BIT
<b>40637</b>	636	SENSOR SERIAL CODE	30	Sensor serial code MSW	RO	UNSIGNED 32
<b>40638</b>	637			Sensor serial code LSW	RO	
<b>40639</b>	638	SENSOR SIGNAL LEVEL	30	Signal level 0 = minimum 6 = maximum	RO	UNSIGNED 16 BIT
<b>40640</b>	639	SENSOR SERIAL CODE	31	Sensor serial code MSW	RO	UNSIGNED 32
<b>40641</b>	640			Sensor serial code LSW	RO	
<b>40642</b>	641	SENSOR SIGNAL LEVEL	31	Signal level 0 = minimum 6 = maximum	RO	UNSIGNED 16 BIT
<b>40643</b>	642	SENSOR SERIAL CODE	32	Sensor serial code MSW	RO	UNSIGNED 32
<b>40644</b>	643			Sensor serial code LSW	RO	
<b>40645</b>	644	SENSOR SIGNAL LEVEL	32	Signal level 0 = minimum 6 = maximum	RO	UNSIGNED 16 BIT
<b>40704</b>	703	SENSOR STATUS FLAG	1	Status of the digital inputs Bit 1 = Reserved Bit 2 = Reserved Bit 3 = Event Enable Bit 4 = Battery Low	RO	UNSIGNED 16 BIT
<b>40711</b>	710	SENSOR STATUS FLAG	2	Status of the digital inputs Bit 1 = Reserved Bit 2 = Reserved Bit 3 = Event Enable Bit 4 = Battery Low	RO	UNSIGNED 16 BIT
<b>40718</b>	717	SENSOR STATUS FLAG	3	Status of the digital inputs Bit 1 = Reserved Bit 2 = Reserved	RO	UNSIGNED 16 BIT

<b>ADDRESS (4x)</b>	<b>OFFSET ADDRESS (4x)</b>	<b>REGISTER</b>	<b>SEN SOR</b>	<b>DESCRIPTION</b>	<b>W/ R</b>	<b>TYPE</b>
				Bit 3 = Event Enable Bit 4 = Battery Low		
<b>40725</b>	724	SENSOR STATUS FLAG	4	Status of the digital inputs Bit 1 = Reserved Bit 2 = Reserved Bit 3 = Event Enable Bit 4 = Battery Low	RO	UNSIGNED 16 BIT
<b>40732</b>	731	SENSOR STATUS FLAG	5	Status of the digital inputs Bit 1 = Reserved Bit 2 = Reserved Bit 3 = Event Enable Bit 4 = Battery Low	RO	UNSIGNED 16 BIT
<b>40739</b>	738	SENSOR STATUS FLAG	6	Status of the digital inputs Bit 1 = Reserved Bit 2 = Reserved Bit 3 = Event Enable Bit 4 = Battery Low	RO	UNSIGNED 16 BIT
<b>40746</b>	745	SENSOR STATUS FLAG	7	Status of the digital inputs Bit 1 = Reserved Bit 2 = Reserved Bit 3 = Event Enable Bit 4 = Battery Low	RO	UNSIGNED 16 BIT
<b>40753</b>	752	SENSOR STATUS FLAG	8	Status of the digital inputs Bit 1 = Reserved Bit 2 = Reserved Bit 3 = Event Enable Bit 4 = Battery Low	RO	UNSIGNED 16 BIT
<b>40760</b>	759	SENSOR STATUS FLAG	9	Status of the digital inputs Bit 1 = Reserved Bit 2 = Reserved Bit 3 = Event Enable Bit 4 = Battery Low	RO	UNSIGNED 16 BIT
<b>40767</b>	766	SENSOR STATUS FLAG	10	Status of the digital inputs Bit 1 = Reserved Bit 2 = Reserved Bit 3 = Event Enable Bit 4 = Battery Low	RO	UNSIGNED 16 BIT

<b>ADDRESS (4x)</b>	<b>OFFSET ADDRESS (4x)</b>	<b>REGISTER</b>	<b>SEN SOR</b>	<b>DESCRIPTION</b>	<b>W/ R</b>	<b>TYPE</b>
<b>40774</b>	773	SENSOR STATUS FLAG	11	Status of the digital inputs Bit 1 = Reserved Bit 2 = Reserved Bit 3 = Event Enable Bit 4 = Battery Low	RO	UNSIGNED 16 BIT
<b>40781</b>	780	SENSOR STATUS FLAG	12	Status of the digital inputs Bit 1 = Reserved Bit 2 = Reserved Bit 3 = Event Enable Bit 4 = Battery Low	RO	UNSIGNED 16 BIT
<b>40788</b>	787	SENSOR STATUS FLAG	13	Status of the digital inputs Bit 1 = Reserved Bit 2 = Reserved Bit 3 = Event Enable Bit 4 = Battery Low	RO	UNSIGNED 16 BIT
<b>40795</b>	794	SENSOR STATUS FLAG	14	Status of the digital inputs Bit 1 = Reserved Bit 2 = Reserved Bit 3 = Event Enable Bit 4 = Battery Low	RO	UNSIGNED 16 BIT
<b>40802</b>	801	SENSOR STATUS FLAG	15	Status of the digital inputs Bit 1 = Reserved Bit 2 = Reserved Bit 3 = Event Enable Bit 4 = Battery Low	RO	UNSIGNED 16 BIT
<b>40809</b>	808	SENSOR STATUS FLAG	16	Status of the digital inputs Bit 1 = Reserved Bit 2 = Reserved Bit 3 = Event Enable Bit 4 = Battery Low	RO	UNSIGNED 16 BIT
<b>40816</b>	815	SENSOR STATUS FLAG	17	Status of the digital inputs Bit 1 = Reserved Bit 2 = Reserved Bit 3 = Event Enable Bit 4 = Battery Low	RO	UNSIGNED 16 BIT
<b>40823</b>	822	SENSOR STATUS FLAG	18	Status of the digital inputs Bit 1 = Reserved Bit 2 = Reserved	RO	UNSIGNED 16 BIT

<b>ADDRESS (4x)</b>	<b>OFFSET ADDRESS (4x)</b>	<b>REGISTER</b>	<b>SEN SOR</b>	<b>DESCRIPTION</b>	<b>W/ R</b>	<b>TYPE</b>
				Bit 3 = Event Enable Bit 4 = Battery Low		
<b>40830</b>	829	SENSOR STATUS FLAG	19	Status of the digital inputs Bit 1 = Reserved Bit 2 = Reserved Bit 3 = Event Enable Bit 4 = Battery Low	RO	UNSIGNED 16 BIT
<b>40837</b>	836	SENSOR STATUS FLAG	20	Status of the digital inputs Bit 1 = Reserved Bit 2 = Reserved Bit 3 = Event Enable Bit 4 = Battery Low	RO	UNSIGNED 16 BIT
<b>40844</b>	843	SENSOR STATUS FLAG	21	Status of the digital inputs Bit 1 = Reserved Bit 2 = Reserved Bit 3 = Event Enable Bit 4 = Battery Low	RO	UNSIGNED 16 BIT
<b>40851</b>	850	SENSOR STATUS FLAG	22	Status of the digital inputs Bit 1 = Reserved Bit 2 = Reserved Bit 3 = Event Enable Bit 4 = Battery Low	RO	UNSIGNED 16 BIT
<b>40858</b>	857	SENSOR STATUS FLAG	23	Status of the digital inputs Bit 1 = Reserved Bit 2 = Reserved Bit 3 = Event Enable Bit 4 = Battery Low	RO	UNSIGNED 16 BIT
<b>40865</b>	864	SENSOR STATUS FLAG	24	Status of the digital inputs Bit 1 = Reserved Bit 2 = Reserved Bit 3 = Event Enable Bit 4 = Battery Low	RO	UNSIGNED 16 BIT
<b>40872</b>	871	SENSOR STATUS FLAG	25	Status of the digital inputs Bit 1 = Reserved Bit 2 = Reserved Bit 3 = Event Enable Bit 4 = Battery Low	RO	UNSIGNED 16 BIT

<b>ADDRESS (4x)</b>	<b>OFFSET ADDRESS (4x)</b>	<b>REGISTER</b>	<b>SEN SOR</b>	<b>DESCRIPTION</b>	<b>W/ R</b>	<b>TYPE</b>
<b>40879</b>	878	SENSOR STATUS FLAG	26	Status of the digital inputs Bit 1 = Reserved Bit 2 = Reserved Bit 3 = Event Enable Bit 4 = Battery Low	RO	UNSIGNED 16 BIT
<b>40886</b>	885	SENSOR STATUS FLAG	27	Status of the digital inputs Bit 1 = Reserved Bit 2 = Reserved Bit 3 = Event Enable Bit 4 = Battery Low	RO	UNSIGNED 16 BIT
<b>40893</b>	892	SENSOR STATUS FLAG	28	Status of the digital inputs Bit 1 = Reserved Bit 2 = Reserved Bit 3 = Event Enable Bit 4 = Battery Low	RO	UNSIGNED 16 BIT
<b>40900</b>	899	SENSOR STATUS FLAG	29	Status of the digital inputs Bit 1 = Reserved Bit 2 = Reserved Bit 3 = Event Enable Bit 4 = Battery Low	RO	UNSIGNED 16 BIT
<b>40907</b>	906	SENSOR STATUS FLAG	30	Status of the digital inputs Bit 1 = Reserved Bit 2 = Reserved Bit 3 = Event Enable Bit 4 = Battery Low	RO	UNSIGNED 16 BIT
<b>40914</b>	913	SENSOR STATUS FLAG	31	Status of the digital inputs Bit 1 = Reserved Bit 2 = Reserved Bit 3 = Event Enable Bit 4 = Battery Low	RO	UNSIGNED 16 BIT
<b>40921</b>	920	SENSOR STATUS FLAG	32	Status of the digital inputs Bit 1 = Reserved Bit 2 = Reserved Bit 3 = Event Enable Bit 4 = Battery Low	RO	UNSIGNED 16 BIT
<b>41001</b>	1000	TIMEOUT SENSOR [16...1]	[16.. 1]	Sensor diagnostics: 0 = sensor OK 1 = sensor Timeout	RO	UNSIGNED 16 BIT
<b>41002</b>	1001	TIMEOUT SENSOR [32...17]	[32.. 17]		RO	UNSIGNED 16 BIT

<b>ADDRESS (4x)</b>	<b>OFFSET ADDRESS (4x)</b>	<b>REGISTER</b>	<b>SEN SOR</b>	<b>DESCRIPTION</b>	<b>W/ R</b>	<b>TYPE</b>
<b>41003</b>	1002	COUNTER / ANALOG	1	Current counter value / analogue input [mV]	RO	UNSIGNED 16 BIT
<b>41004</b>	1003	TEMPERATURE [°Cx10]	1	Temperature measurement in [°Cx10] Example 200 = 20.0°C	RO	SIGNED 16 BIT
<b>41005</b>	1004	HUMIDITY [%x10]	1	Relative humidity measurement in [%x10] Example 500 = 50.0%	RO	UNSIGNED 16 BIT
<b>41006</b>	1005	DIGITAL INPUTS	1	Status of the digital inputs Bit 1 = IN0 Bit 2 = IN1 Bit 3 = IN2 Bit 4 = IN3	RO	UNSIGNED 16 BIT
<b>41007</b>	1006	COUNTER / ANALOG	2	Current counter value / analogue input [mV]	RO	UNSIGNED 16 BIT
<b>41008</b>	1007	TEMPERATURE [°Cx10]	2	Temperature measurement in [°Cx10] Example 200 = 20.0°C	RO	SIGNED 16 BIT
<b>41009</b>	1008	HUMIDITY [%x10]	2	Relative humidity measurement in [%x10] Example 500 = 50.0%	RO	UNSIGNED 16 BIT
<b>41010</b>	1009	DIGITAL INPUTS	2	Status of the digital inputs Bit 1 = IN0 Bit 2 = IN1 Bit 3 = IN2 Bit 4 = IN3	RO	UNSIGNED 16 BIT
<b>41011</b>	1010	COUNTER / ANALOG	3	Current counter value / analogue input [mV]	RO	UNSIGNED 16 BIT
<b>41012</b>	1011	TEMPERATURE [°Cx10]	3	Temperature measurement in [°Cx10] Example 200 = 20.0°C	RO	SIGNED 16 BIT
<b>41013</b>	1012	HUMIDITY [%x10]	3	Relative humidity measurement in [%x10] Example 500 = 50.0%	RO	UNSIGNED 16 BIT
<b>41014</b>	1013	DIGITAL INPUTS	3	Status of the digital inputs Bit 1 = IN0 Bit 2 = IN1	RO	UNSIGNED 16 BIT

<b>ADDRESS (4x)</b>	<b>OFFSET ADDRESS (4x)</b>	<b>REGISTER</b>	<b>SEN SOR</b>	<b>DESCRIPTION</b>	<b>W/ R</b>	<b>TYPE</b>
				Bit 3 = IN2 Bit 4 = IN3		
<b>41015</b>	1014	COUNTER / ANALOG	4	Current counter value / analogue input [mV]	RO	UNSIGNED 16 BIT
<b>41016</b>	1015	TEMPERATURE [°Cx10]	4	Temperature measurement in [°Cx10] Example 200 = 20.0°C	RO	SIGNED 16 BIT
<b>41017</b>	1016	HUMIDITY [%x10]	4	Relative humidity measurement in [%x10] Example 500 = 50.0%	RO	UNSIGNED 16 BIT
<b>41018</b>	1017	DIGITAL INPUTS	4	Status of the digital inputs Bit 1 = IN0 Bit 2 = IN1 Bit 3 = IN2 Bit 4 = IN3	RO	UNSIGNED 16 BIT
<b>41019</b>	1018	COUNTER / ANALOG	5	Current counter value / analogue input [mV]	RO	UNSIGNED 16 BIT
<b>41020</b>	1019	TEMPERATURE [°Cx10]	5	Temperature measurement in [°Cx10] Example 200 = 20.0°C	RO	SIGNED 16 BIT
<b>41021</b>	1020	HUMIDITY [%x10]	5	Relative humidity measurement in [%x10] Example 500 = 50.0%	RO	UNSIGNED 16 BIT
<b>41022</b>	1021	DIGITAL INPUTS	5	Status of the digital inputs Bit 1 = IN0 Bit 2 = IN1 Bit 3 = IN2 Bit 4 = IN3	RO	UNSIGNED 16 BIT
<b>41023</b>	1022	COUNTER / ANALOG	6	Current counter value / analogue input [mV]	RO	UNSIGNED 16 BIT
<b>41024</b>	1023	TEMPERATURE [°Cx10]	6	Temperature measurement in [°Cx10] Example 200 = 20.0°C	RO	SIGNED 16 BIT
<b>41025</b>	1024	HUMIDITY [%x10]	6	Relative humidity measurement in [%x10] Example 500 = 50.0%	RO	UNSIGNED 16 BIT



<b>ADDRESS (4x)</b>	<b>OFFSET ADDRESS (4x)</b>	<b>REGISTER</b>	<b>SEN SOR</b>	<b>DESCRIPTION</b>	<b>W/ R</b>	<b>TYPE</b>
<b>41026</b>	1025	DIGITAL INPUTS	6	Status of the digital inputs Bit 1 = IN0 Bit 2 = IN1 Bit 3 = IN2 Bit 4 = IN3	RO	UNSIGNED 16 BIT
<b>41027</b>	1026	COUNTER / ANALOG	7	Current counter value / analogue input [mV]	RO	UNSIGNED 16 BIT
<b>41028</b>	1027	TEMPERATURE [°Cx10]	7	Temperature measurement in [°Cx10] Example 200 = 20.0°C	RO	SIGNED 16 BIT
<b>41029</b>	1028	HUMIDITY [%x10]	7	Relative humidity measurement in [%x10] Example 500 = 50.0%	RO	UNSIGNED 16 BIT
<b>41030</b>	1029	DIGITAL INPUTS	7	Status of the digital inputs Bit 1 = IN0 Bit 2 = IN1 Bit 3 = IN2 Bit 4 = IN3	RO	UNSIGNED 16 BIT
<b>41031</b>	1030	COUNTER / ANALOG	8	Current counter value / analogue input [mV]	RO	UNSIGNED 16 BIT
<b>41032</b>	1031	TEMPERATURE [°Cx10]	8	Temperature measurement in [°Cx10] Example 200 = 20.0°C	RO	SIGNED 16 BIT
<b>41033</b>	1032	HUMIDITY [%x10]	8	Relative humidity measurement in [%x10] Example 500 = 50.0%	RO	UNSIGNED 16 BIT
<b>41034</b>	1033	DIGITAL INPUTS	8	Status of the digital inputs Bit 1 = IN0 Bit 2 = IN1 Bit 3 = IN2 Bit 4 = IN3	RO	UNSIGNED 16 BIT
<b>41035</b>	1034	COUNTER / ANALOG	9	Current counter value / analogue input [mV]	RO	UNSIGNED 16 BIT
<b>41036</b>	1035	TEMPERATURE [°Cx10]	9	Temperature measurement in [°Cx10] Example 200 = 20.0°C	RO	SIGNED 16 BIT

<b>ADDRESS (4x)</b>	<b>OFFSET ADDRESS (4x)</b>	<b>REGISTER</b>	<b>SEN SOR</b>	<b>DESCRIPTION</b>	<b>W/ R</b>	<b>TYPE</b>
<b>41037</b>	1036	HUMIDITY [%x10]	9	Relative humidity measurement in [%x10] Example 500 = 50.0%	RO	UNSIGNED 16 BIT
<b>41038</b>	1037	DIGITAL INPUTS	9	Status of the digital inputs Bit 1 = IN0 Bit 2 = IN1 Bit 3 = IN2 Bit 4 = IN3	RO	UNSIGNED 16 BIT
<b>41039</b>	1038	COUNTER / ANALOG	10	Current counter value / analogue input [mV]	RO	UNSIGNED 16 BIT
<b>41040</b>	1039	TEMPERATURE [°Cx10]	10	Temperature measurement in [°Cx10] Example 200 = 20.0°C	RO	SIGNED 16 BIT
<b>41041</b>	1040	HUMIDITY [%x10]	10	Relative humidity measurement in [%x10] Example 500 = 50.0%	RO	UNSIGNED 16 BIT
<b>41042</b>	1041	DIGITAL INPUTS	10	Status of the digital inputs Bit 1 = IN0 Bit 2 = IN1 Bit 3 = IN2 Bit 4 = IN3	RO	UNSIGNED 16 BIT
<b>41043</b>	1042	COUNTER / ANALOG	11	Current counter value / analogue input [mV]	RO	UNSIGNED 16 BIT
<b>41044</b>	1043	TEMPERATURE [°Cx10]	11	Temperature measurement in [°Cx10] Example 200 = 20.0°C	RO	SIGNED 16 BIT
<b>41045</b>	1044	HUMIDITY [%x10]	11	Relative humidity measurement in [%x10] Example 500 = 50.0%	RO	UNSIGNED 16 BIT
<b>41046</b>	1045	DIGITAL INPUTS	11	Status of the digital inputs Bit 1 = IN0 Bit 2 = IN1 Bit 3 = IN2 Bit 4 = IN3	RO	UNSIGNED 16 BIT
<b>41047</b>	1046	COUNTER / ANALOG	12	Current counter value / analogue input [mV]	RO	UNSIGNED 16 BIT
<b>41048</b>	1047	TEMPERATURE [°Cx10]	12	Temperature measurement in	RO	SIGNED 16 BIT

<b>ADDRESS (4x)</b>	<b>OFFSET ADDRESS (4x)</b>	<b>REGISTER</b>	<b>SEN SOR</b>	<b>DESCRIPTION</b>	<b>W/ R</b>	<b>TYPE</b>
				[°Cx10] Example 200 = 20.0°C		
<b>41049</b>	1048	HUMIDITY [%x10]	12	Relative humidity measurement in [%x10] Example 500 = 50.0%	RO	UNSIGNED 16 BIT
<b>41050</b>	1049	DIGITAL INPUTS	12	Status of the digital inputs Bit 1 = IN0 Bit 2 = IN1 Bit 3 = IN2 Bit 4 = IN3	RO	UNSIGNED 16 BIT
<b>41051</b>	1050	COUNTER / ANALOG	13	Current counter value / analogue input [mV]	RO	UNSIGNED 16 BIT
<b>41052</b>	1051	TEMPERATURE [°Cx10]	13	Temperature measurement in [°Cx10] Example 200 = 20.0°C	RO	SIGNED 16 BIT
<b>41053</b>	1052	HUMIDITY [%x10]	13	Relative humidity measurement in [%x10] Example 500 = 50.0%	RO	UNSIGNED 16 BIT
<b>41054</b>	1053	DIGITAL INPUTS	13	Status of the digital inputs Bit 1 = IN0 Bit 2 = IN1 Bit 3 = IN2 Bit 4 = IN3	RO	UNSIGNED 16 BIT
<b>41055</b>	1054	COUNTER / ANALOG	14	Current counter value / analogue input [mV]	RO	UNSIGNED 16 BIT
<b>41056</b>	1055	TEMPERATURE [°Cx10]	14	Temperature measurement in [°Cx10] Example 200 = 20.0°C	RO	SIGNED 16 BIT
<b>41057</b>	1056	HUMIDITY [%x10]	14	Relative humidity measurement in [%x10] Example 500 = 50.0%	RO	UNSIGNED 16 BIT
<b>41058</b>	1057	DIGITAL INPUTS	14	Status of the digital inputs Bit 1 = IN0 Bit 2 = IN1 Bit 3 = IN2 Bit 4 = IN3	RO	UNSIGNED 16 BIT
<b>41059</b>	1058	COUNTER / ANALOG	15	Current counter value / analogue input [mV]	RO	UNSIGNED 16 BIT

<b>ADDRESS (4x)</b>	<b>OFFSET ADDRESS (4x)</b>	<b>REGISTER</b>	<b>SEN SOR</b>	<b>DESCRIPTION</b>	<b>W/ R</b>	<b>TYPE</b>
<b>41060</b>	1059	TEMPERATURE [°Cx10]	15	Temperature measurement in [°Cx10] Example 200 = 20.0°C	RO	SIGNED 16 BIT
<b>41061</b>	1060	HUMIDITY [%x10]	15	Relative humidity measurement in [%x10] Example 500 = 50.0%	RO	UNSIGNED 16 BIT
<b>41062</b>	1061	DIGITAL INPUTS	15	Status of the digital inputs Bit 1 = IN0 Bit 2 = IN1 Bit 3 = IN2 Bit 4 = IN3	RO	UNSIGNED 16 BIT
<b>41063</b>	1062	COUNTER / ANALOG	16	Current counter value / analogue input [mV]	RO	UNSIGNED 16 BIT
<b>41064</b>	1063	TEMPERATURE [°Cx10]	16	Temperature measurement in [°Cx10] Example 200 = 20.0°C	RO	SIGNED 16 BIT
<b>41065</b>	1064	HUMIDITY [%x10]	16	Relative humidity measurement in [%x10] Example 500 = 50.0%	RO	UNSIGNED 16 BIT
<b>41066</b>	1065	DIGITAL INPUTS	16	Status of the digital inputs Bit 1 = IN0 Bit 2 = IN1 Bit 3 = IN2 Bit 4 = IN3	RO	UNSIGNED 16 BIT
<b>41067</b>	1066	COUNTER / ANALOG	17	Current counter value / analogue input [mV]	RO	UNSIGNED 16 BIT
<b>41068</b>	1067	TEMPERATURE [°Cx10]	17	Temperature measurement in [°Cx10] Example 200 = 20.0°C	RO	SIGNED 16 BIT
<b>41069</b>	1068	HUMIDITY [%x10]	17	Relative humidity measurement in [%x10] Example 500 = 50.0%	RO	UNSIGNED 16 BIT
<b>41070</b>	1069	DIGITAL INPUTS	17	Status of the digital inputs Bit 1 = IN0 Bit 2 = IN1 Bit 3 = IN2 Bit 4 = IN3	RO	UNSIGNED 16 BIT

<b>ADDRESS (4x)</b>	<b>OFFSET ADDRESS (4x)</b>	<b>REGISTER</b>	<b>SEN SOR</b>	<b>DESCRIPTION</b>	<b>W/ R</b>	<b>TYPE</b>
<b>41071</b>	1070	COUNTER / ANALOG	18	Current counter value / analogue input [mV]	RO	UNSIGNED 16 BIT
<b>41072</b>	1071	TEMPERATURE [°Cx10]	18	Temperature measurement in [°Cx10] Example 200 = 20.0°C	RO	SIGNED 16 BIT
<b>41073</b>	1072	HUMIDITY [%x10]	18	Relative humidity measurement in [%x10] Example 500 = 50.0%	RO	UNSIGNED 16 BIT
<b>41074</b>	1073	DIGITAL INPUTS	18	Status of the digital inputs Bit 1 = IN0 Bit 2 = IN1 Bit 3 = IN2 Bit 4 = IN3	RO	UNSIGNED 16 BIT
<b>41075</b>	1074	COUNTER / ANALOG	19	Current counter value / analogue input [mV]	RO	UNSIGNED 16 BIT
<b>41076</b>	1075	TEMPERATURE [°Cx10]	19	Temperature measurement in [°Cx10] Example 200 = 20.0°C	RO	SIGNED 16 BIT
<b>41077</b>	1076	HUMIDITY [%x10]	19	Relative humidity measurement in [%x10] Example 500 = 50.0%	RO	UNSIGNED 16 BIT
<b>41078</b>	1077	DIGITAL INPUTS	19	Status of the digital inputs Bit 1 = IN0 Bit 2 = IN1 Bit 3 = IN2 Bit 4 = IN3	RO	UNSIGNED 16 BIT
<b>41079</b>	1078	COUNTER / ANALOG	20	Current counter value / analogue input [mV]	RO	UNSIGNED 16 BIT
<b>41080</b>	1079	TEMPERATURE [°Cx10]	20	Temperature measurement in [°Cx10] Example 200 = 20.0°C	RO	SIGNED 16 BIT
<b>41081</b>	1080	HUMIDITY [%x10]	20	Relative humidity measurement in [%x10] Example 500 = 50.0%	RO	UNSIGNED 16 BIT
<b>41082</b>	1081	DIGITAL INPUTS	20	Status of the digital inputs Bit 1 = IN0 Bit 2 = IN1	RO	UNSIGNED 16 BIT

<b>ADDRESS (4x)</b>	<b>OFFSET ADDRESS (4x)</b>	<b>REGISTER</b>	<b>SEN SOR</b>	<b>DESCRIPTION</b>	<b>W/ R</b>	<b>TYPE</b>
				Bit 3 = IN2 Bit 4 = IN3		
<b>41083</b>	1082	COUNTER / ANALOG	21	Current counter value / analogue input [mV]	RO	UNSIGNED 16 BIT
<b>41084</b>	1083	TEMPERATURE [°Cx10]	21	Temperature measurement in [°Cx10] Example 200 = 20.0°C	RO	SIGNED 16 BIT
<b>41085</b>	1084	HUMIDITY [%x10]	21	Relative humidity measurement in [%x10] Example 500 = 50.0%	RO	UNSIGNED 16 BIT
<b>41086</b>	1085	DIGITAL INPUTS	21	Status of the digital inputs Bit 1 = IN0 Bit 2 = IN1 Bit 3 = IN2 Bit 4 = IN3	RO	UNSIGNED 16 BIT
<b>41087</b>	1086	COUNTER / ANALOG	22	Current counter value / analogue input [mV]	RO	UNSIGNED 16 BIT
<b>41088</b>	1087	TEMPERATURE [°Cx10]	22	Temperature measurement in [°Cx10] Example 200 = 20.0°C	RO	SIGNED 16 BIT
<b>41089</b>	1088	HUMIDITY [%x10]	22	Relative humidity measurement in [%x10] Example 500 = 50.0%	RO	UNSIGNED 16 BIT
<b>41090</b>	1089	DIGITAL INPUTS	22	Status of the digital inputs Bit 1 = IN0 Bit 2 = IN1 Bit 3 = IN2 Bit 4 = IN3	RO	UNSIGNED 16 BIT
<b>41091</b>	1090	COUNTER / ANALOG	23	Current counter value / analogue input [mV]	RO	UNSIGNED 16 BIT
<b>41092</b>	1091	TEMPERATURE [°Cx10]	23	Temperature measurement in [°Cx10] Example 200 = 20.0°C	RO	SIGNED 16 BIT
<b>41093</b>	1092	HUMIDITY [%x10]	23	Relative humidity measurement in [%x10] Example 500 = 50.0%	RO	UNSIGNED 16 BIT

<b>ADDRESS (4x)</b>	<b>OFFSET ADDRESS (4x)</b>	<b>REGISTER</b>	<b>SEN SOR</b>	<b>DESCRIPTION</b>	<b>W/ R</b>	<b>TYPE</b>
<b>41094</b>	1093	DIGITAL INPUTS	23	Status of the digital inputs Bit 1 = IN0 Bit 2 = IN1 Bit 3 = IN2 Bit 4 = IN3	RO	UNSIGNED 16 BIT
<b>41095</b>	1094	COUNTER / ANALOG	24	Current counter value / analogue input [mV]	RO	UNSIGNED 16 BIT
<b>41096</b>	1095	TEMPERATURE [°Cx10]	24	Temperature measurement in [°Cx10] Example 200 = 20.0°C	RO	SIGNED 16 BIT
<b>41097</b>	1096	HUMIDITY [%x10]	24	Relative humidity measurement in [%x10] Example 500 = 50.0%	RO	UNSIGNED 16 BIT
<b>41098</b>	1097	DIGITAL INPUTS	24	Status of the digital inputs Bit 1 = IN0 Bit 2 = IN1 Bit 3 = IN2 Bit 4 = IN3	RO	UNSIGNED 16 BIT
<b>41099</b>	1098	COUNTER / ANALOG	25	Current counter value / analogue input [mV]	RO	UNSIGNED 16 BIT
<b>41100</b>	1099	TEMPERATURE [°Cx10]	25	Temperature measurement in [°Cx10] Example 200 = 20.0°C	RO	SIGNED 16 BIT
<b>41101</b>	1100	HUMIDITY [%x10]	25	Relative humidity measurement in [%x10] Example 500 = 50.0%	RO	UNSIGNED 16 BIT
<b>41102</b>	1101	DIGITAL INPUTS	25	Status of the digital inputs Bit 1 = IN0 Bit 2 = IN1 Bit 3 = IN2 Bit 4 = IN3	RO	UNSIGNED 16 BIT
<b>41103</b>	1102	COUNTER / ANALOG	26	Current counter value / analogue input [mV]	RO	UNSIGNED 16 BIT
<b>41104</b>	1103	TEMPERATURE [°Cx10]	26	Temperature measurement in [°Cx10] Example 200 = 20.0°C	RO	SIGNED 16 BIT

<b>ADDRESS (4x)</b>	<b>OFFSET ADDRESS (4x)</b>	<b>REGISTER</b>	<b>SEN SOR</b>	<b>DESCRIPTION</b>	<b>W/ R</b>	<b>TYPE</b>
<b>41105</b>	1104	HUMIDITY [%x10]	26	Relative humidity measurement in [%x10] Example 500 = 50.0%	RO	UNSIGNED 16 BIT
<b>41106</b>	1105	DIGITAL INPUTS	26	Status of the digital inputs Bit 1 = IN0 Bit 2 = IN1 Bit 3 = IN2 Bit 4 = IN3	RO	UNSIGNED 16 BIT
<b>41107</b>	1106	COUNTER / ANALOG	27	Current counter value / analogue input [mV]	RO	UNSIGNED 16 BIT
<b>41108</b>	1107	TEMPERATURE [°Cx10]	27	Temperature measurement in [°Cx10] Example 200 = 20.0°C	RO	SIGNED 16 BIT
<b>41109</b>	1108	HUMIDITY [%x10]	27	Relative humidity measurement in [%x10] Example 500 = 50.0%	RO	UNSIGNED 16 BIT
<b>41110</b>	1109	DIGITAL INPUTS	27	Status of the digital inputs Bit 1 = IN0 Bit 2 = IN1 Bit 3 = IN2 Bit 4 = IN3	RO	UNSIGNED 16 BIT
<b>41111</b>	1110	COUNTER / ANALOG	28	Current counter value / analogue input [mV]	RO	UNSIGNED 16 BIT
<b>41112</b>	1111	TEMPERATURE [°Cx10]	28	Temperature measurement in [°Cx10] Example 200 = 20.0°C	RO	SIGNED 16 BIT
<b>41113</b>	1112	HUMIDITY [%x10]	28	Relative humidity measurement in [%x10] Example 500 = 50.0%	RO	UNSIGNED 16 BIT
<b>41114</b>	1113	DIGITAL INPUTS	28	Status of the digital inputs Bit 1 = IN0 Bit 2 = IN1 Bit 3 = IN2 Bit 4 = IN3	RO	UNSIGNED 16 BIT
<b>41115</b>	1114	COUNTER / ANALOG	29	Current counter value / analogue input [mV]	RO	UNSIGNED 16 BIT
<b>41116</b>	1115	TEMPERATURE [°Cx10]	29	Temperature measurement in	RO	SIGNED 16 BIT



<b>ADDRESS (4x)</b>	<b>OFFSET ADDRESS (4x)</b>	<b>REGISTER</b>	<b>SEN SOR</b>	<b>DESCRIPTION</b>	<b>W/ R</b>	<b>TYPE</b>
				[°Cx10] Example 200 = 20.0°C		
<b>41117</b>	1116	HUMIDITY [%x10]	29	Relative humidity measurement in [%x10] Example 500 = 50.0%	RO	UNSIGNED 16 BIT
<b>41118</b>	1117	DIGITAL INPUTS	29	Status of the digital inputs Bit 1 = IN0 Bit 2 = IN1 Bit 3 = IN2 Bit 4 = IN3	RO	UNSIGNED 16 BIT
<b>41119</b>	1118	COUNTER / ANALOG	30	Current counter value / analogue input [mV]	RO	UNSIGNED 16 BIT
<b>41120</b>	1119	TEMPERATURE [°Cx10]	30	Temperature measurement in [°Cx10] Example 200 = 20.0°C	RO	SIGNED 16 BIT
<b>41121</b>	1120	HUMIDITY [%x10]	30	Relative humidity measurement in [%x10] Example 500 = 50.0%	RO	UNSIGNED 16 BIT
<b>41122</b>	1121	DIGITAL INPUTS	30	Status of the digital inputs Bit 1 = IN0 Bit 2 = IN1 Bit 3 = IN2 Bit 4 = IN3	RO	UNSIGNED 16 BIT
<b>41123</b>	1122	COUNTER / ANALOG	31	Current counter value / analogue input [mV]	RO	UNSIGNED 16 BIT
<b>41124</b>	1123	TEMPERATURE [°Cx10]	31	Temperature measurement in [°Cx10] Example 200 = 20.0°C	RO	SIGNED 16 BIT
<b>41125</b>	1124	HUMIDITY [%x10]	31	Relative humidity measurement in [%x10] Example 500 = 50.0%	RO	UNSIGNED 16 BIT
<b>41126</b>	1125	DIGITAL INPUTS	31	Status of the digital inputs Bit 1 = IN0 Bit 2 = IN1 Bit 3 = IN2 Bit 4 = IN3	RO	UNSIGNED 16 BIT
<b>41127</b>	1126	COUNTER / ANALOG	32	Current counter value / analogue input [mV]	RO	UNSIGNED 16 BIT

<b>ADDRESS (4x)</b>	<b>OFFSET ADDRESS (4x)</b>	<b>REGISTER</b>	<b>SEN SOR</b>	<b>DESCRIPTION</b>	<b>W/ R</b>	<b>TYPE</b>
<b>41128</b>	1127	TEMPERATURE [°Cx10]	32	Temperature measurement in [°Cx10] Example 200 = 20.0°C	RO	SIGNED 16 BIT
<b>41129</b>	1128	HUMIDITY [%x10]	32	Relative humidity measurement in [%x10] Example 500 = 50.0%	RO	UNSIGNED 16 BIT
<b>41130</b>	1129	DIGITAL INPUTS	32	Status of the digital inputs Bit 1 = IN0 Bit 2 = IN1 Bit 3 = IN2 Bit 4 = IN3	RO	UNSIGNED 16 BIT

## 10. SEARCH AND MODIFICATION OF THE DEVICE IP WITH SENECA DISCOVERY DEVICE

When the STS LED is steady on in the R series device, it is possible to obtain the IP address that has been set.

The software can be downloaded from:

<https://www.seneca.it/en/linee-di-prodotto/software/easy/sdd>

Pressing the "search" button starts the search for all Seneca devices present in the network even if with IP addresses not compatible with the current PC configuration:



It is now possible to change the address by pressing the "Assign" button:

