Colourless, odourless, and tasteless gas. Highly toxic.

Synonyms: Carbonous oxide. Carbon(II) oxide. Flue gas. Monoxide

, ,	, (,	Aldo, I lao gao, Morioxido	
Chemical formula	•	CO	
Molar weight		28	
Relative gas density (to	air)	0.97	
Conversion	•	1 ppm = 1.15 mg/m ³	
Boiling point		−191.5 °C	
Low explosive limit (LEL	.), % vol in air	12.5	
Upper explosive limit (U	EL), % vol in air	74	
Odour	•	Odourless	
Hazards		Highly toxic. Mild poisoning causes lightheadedness, confusion, headache, dizziness, and flu-like effects. Larger exposures can lead to toxicity of the CNS and heart, and death. After acute poisoning, long-term problems may occur. CO also have negative effects on a baby if exposed during pregnancy. Chronic exposure to low levels can lead to depression, confusion, and memory loss.	
Exposure limits	TWA	40 mg/m ³ /35 ppm	
(NIOSH)	IDLH	1380 mg/m ³ /1200 ppm	

Conversion of ppm to mg/m³ is calculated for 25°C and 1 atm.

Installation guidelines

(See Installation and connections section for general information.)

Carbon monoxide has practically the same density as air and spreads evenly in the room. Install the sensor in a proximity to possible leakage or generation source, taking into consideration the temperature of the gas, the air currents in the room etc.

Calibration

E2618-CO transmitters have been calibrated by Manufacturer with standard gas mixtures before delivery. Provided that the sensor is used under moderate conditions, field recalibration is recommended every 6 months. Please contact your dealer for more information.

Maintenance

Do not perform any maintenance operation with the power on.

Clean the device with soft damp cloth. Do not use any abrasive cleaning agents. Do not immerse the device into water or any cleaning media.

Delivery set

- -Transmitter E2618 (wall mount or duct mount version)
- Mounting accessories:
- 4 screws with plastic dowels for wall mount version
- rubber flange for duct mount version.
- fixing clamp for remote probe version

Sampling method Detection range Detection rang	Specifications	
Detection range Maximum overload Resolution / digital unit Response time T90 Response time T90 Repeatability Sensor lifetime Calibration interval Signal update Load resistance R _L < (Us - 2 V) / 22 mA for 4-20 mA R _L > 250 kOhm for 0-10 V mode R _L > 250 kOhm for 0-10 V mode Digital interface RS485, Modbus RTU protocol; no galvanic isolation Power supply options Power consumption Analog outputs Cable connections Enclosure Dimensions CE marking Operating conditions Poperating temperature Operating temperature Display dimensions Character height Other options Power to protocol Power and / 0-10 V, user settable Output sassignment NOTE For LCD version only OUT1 is available screwless spring loaded terminals Brook Results and Enclosure grey ABS, wall or duct mount, protection class IP68 ABS, wall or duct mount, protection class IP68 Operating temperature Operating temperature Operating temperature Operating temperature Display dimensions Power to protocol Protection IP65, default cable length 3.0 m; Pometo protocol Protection IP65, default cable length 3.0 m;	Sensor type	electrochemical cell
Maximum overload 2000 ppm Resolution / digital unit 1 ppm Response time T90 < 30 s		diffusion
Resolution / digital unit Response time T90 Response time T90 Response time T90 Response time T90 Repeatability Sensor lifetime Sensor lifetime Calibration interval Signal update Revery 1 second Revery 1 se	Detection range	01000 ppm
Response time T90		2000 ppm
Repeatability	Resolution / digital unit	1 ppm
Sensor lifetime > 6 years Calibration interval 6 months Signal update every 1 second R _L < (Us - 2 V) / 22 mA for 4-20 mA R _L > 250 kOhm for 0-10 V mode Power supply options 1130 VDC or 24 VAC Power consumption < 2 V/A Analog outputs 2 × 4-20 mA / 0-10 V, user settable Outputs assignment OUT1 2 gas; OUT2 2 gas NOTE For LCD version only OUT1 is available Cable connections grey ABS, wall or duct mount, protection class IP65 Dimensions H82 × W80 × D55 mr CE marking according to 2014/30/EU and EN61326-1 requirements -20+50 °C, 1590 %RH, atmospheric pressure non ATEX rated areas, non-aggressive atmosphere NOTE The sensor may exhibit sensitivity to acetylene etylene, hydrogen and nitric oxide LCD option Operating temperature 0+50 °C Display dimensions 72 × 36 mm Number of digits 3.57-segment Character height 14 mm Other features Backlight Other options Protection IP65, default cable length 3.0 m;	Response time T90	< 30 s
Calibration interval Signal update Load resistance Digital interface Power supply options Power consumption Analog outputs Cable connections Enclosure Dimensions CE marking Operating conditions CED option Operating temperature Display dimensions CC Display dimensions Operating temperature Display dimensions CC Display dimension	Repeatability	< ± 5%
Signal update Load resistance R _L < (Us - 2 V) / 22 mA for 4-20 mA R _L > 250 kOhm for 0-10 V mode R _L > 250 kOhm for 0-10 V mode Power supply options Power consumption Analog outputs Outputs assignment Cable connections Enclosure Dimensions CE marking Operating conditions Operating temperature Display dimensions CCD option Operating temperature Display dimensions Number of digits Character height Other options RS485, Modbus RTU protocol; no galvanic isolation RS485, Modbus RTU protocol; no galvanic isolation RL > 2 V/A RL > 250 kOhm for 0-10 V mode RL > 2 V/A RL > 20 mA / 0-10 V, user settable OUT1 2 gas; OUT2 2 gas NOTE For LCD version only OUT1 is available screwless spring loaded terminals screwless spring loaded terminals Brown ABS, wall or duct mount, protection class IP68 H82 × W80 × D55 mm ACCONTRACT AND SCREW ABS, wall or duct mount, protection class IP68 Protection IP65, default cable length 3.0 m; Protection IP65, default cable length 3.0 m;		> 6 years
Load resistance R _L < (Us - 2 V) / 22 mA for 4-20 mA R _L > 250 kOhm for 0-10 V mode R _L > 250 kOhm for 0-10 V mode RS485, Modbus RTU protocol; no galvanic isolation Power supply options Power consumption Analog outputs Outputs assignment Cable connections Enclosure Dimensions CE marking Operating conditions CCD option Operating temperature Display dimensions CCD option Operating temperature Display dimensions R _L < (Us - 2 V) / 22 mA for 4-20 mA R _L > 250 kOhm for 0-10 V mode RS485, Modbus RTU protocol; no galvanic isolation OUT1 2 gas; OUT2 2 gas; O	Calibration interval	6 months
Digital interface RS485, Modbus RTU protocol; no galvanic isolation Power supply options 1130 VDC or 24 VAC Power consumption 2 v 4-20 mA / 0-10 V, user settable Outputs assignment Outputs assignment Series Power Spring loaded terminals Series Power Spring loaded terminals Gable connections Series Power Spring loaded terminals Gable connections Series Power Spring loaded terminals Gable Cable Cabl	Signal update	every 1 second
Power supply options Power consumption Analog outputs Outputs assignment Cable connections Enclosure Dimensions CE marking Operating conditions CCD option Operating temperature Display dimensions CCD option Operating temperature Display dimensions CCD option Operating temperature Display dimensions 1130 VDC or 24 VAC 2 VA A-20 mA / 0-10 V, user settable OUT1 2 gas; OUT2 2 gas NOTE For LCD version only OUT1 is available screwless spring loaded terminals grey ABS, wall or duct mount, protection class IP68 H82 × W80 × D55 mm ACCORDINATION OF The Sensor may exhibit sensitivity to acetylene etylene, hydrogen and nitric oxide LCD option Operating temperature Display dimensions 72 × 36 mm Number of digits 3.5 7-segment Character height Other options Protection IP65, default cable length 3.0 m;	Load resistance	R _L > 250 kOhm for 0-10 V mode
Power consumption	Digital interface	RS485, Modbus RTU protocol; no galvanic isolation
Analog outputs Outputs assignment Cable connections Enclosure Dimensions CE marking Operating conditions CCD option Operating temperature Display dimensions CED option Operating temperature Display dimensions Operating temperature Omerating temperature Display dimensions Operating temperature Omerating temperature Display dimensions Operating temperature Omerating temperature O	1171	1130 VDC or 24 VAC
Outputs assignment Cable connections Enclosure Dimensions CE marking Operating conditions CCD option Operating temperature Display dimensions CED option Operating temperature Display dimensions Operating temperature Omerating temperature Display dimensions Operating temperature Omerating temperature Display dimensions Operating temperature Op	Power consumption	< 2 VA
Cable connections Enclosure Dimensions CE marking Operating conditions CCD option Operating temperature Display dimensions CE digits Cable connections R82 × W80 × D55 mm C20+50 °C, 1590 %RH, atmospheric pressure non ATEX rated areas, non-aggressive atmosphere etylene, hydrogen and nitric oxide LCD option Operating temperature Display dimensions Number of digits Character height Other options Protection IP65, default cable length 3.0 m; Protection IP65, default cable length 3.0 m;	Analog outputs	<u>.</u>
Enclosure grey ABS, wall or duct mount, protection class IP66 Dimensions H82 × W80 × D55 mm CE marking according to 2014/30/EU and EN61326-1 requirements -20+50 °C, 1590 %RH, atmospheric pressure non ATEX rated areas, non-aggressive atmosphere etylene, hydrogen and nitric oxide LCD option Operating temperature 0+50 °C Display dimensions 72 × 36 mm Number of digits 3.57-segment Character height 14 mm Other features Backlight Other options Protection IP65, default cable length 3.0 m;	Outputs assignment	OUT1 2 gas; OUT2 2 gas NOTE For LCD version only OUT1 is available.
Dimensions CE marking according to 2014/30/EU and EN61326-1 requirements -20+50 °C, 1590 %RH, atmospheric pressure non ATEXrated areas, non-aggressive atmosphere NOTE The sensor may exhibit sensitivity to acetylene etylene, hydrogen and nitric oxide etylene, hydrogen and nitric oxide oxide sensor of digits Display dimensions Number of digits Character height Other features Protection IP65, default cable length 3.0 m; Protection IP65, default cable length 3.0 m;	Cable connections	screwless spring loaded terminals
CE marking according to 2014/30/EU and EN61326-1 requirements -20+50 °C, 1590 %RH, atmospheric pressure non ATEX rated areas, non-aggressive atmosphere NOTE The sensor may exhibit sensitivity to acetylene etylene, hydrogen and nitric oxide to compare the sensor of the senso	Enclosure	grey ABS, wall or duct mount, protection class IP65
Operating conditions -20+50 °C, 1590 %RH, atmospheric pressure non ATEXrated areas, non-aggressive atmosphere NOTE The sensor may exhibit sensitivity to acetylene etylene, hydrogen and nitric oxide etylene, hydrogen and nitric oxide of the sensor may exhibit sensitivity to acetylene etylene, hydrogen and nitric oxide of the sensor may exhibit sensitivity to acetylene etylene, hydrogen and nitric oxide of the sensor oxide of the sensor may exhibit sensitivity to acetylene etylene, hydrogen and nitric oxide of the sensor oxide ox	Dimensions	H82 × W80 × D55 mm
Operating conditions non ATEXrated areas, non-aggressive atmosphere NOTE The sensor may exhibit sensitivity to acetylene etylene, hydrogen and nitric oxide tylene, hydrogen and	CE marking	according to 2014/30/EU and EN61326-1 requirements
Operating temperature 0+50 °C Display dimensions 72 × 36 mm Number of digits 3.5 7-segment Character height 14 mm Other features Backlight Other options Protection IP65, default cable length 3.0 m;	Operating conditions	-20+50 °C, 1590 %RH, atmospheric pressure non ATEXrated areas, non-aggressive atmosphere NOTE The sensor may exhibit sensitivity to acetylene, etylene, hydrogen and nitric oxide
Display dimensions 72 × 36 mm Number of digits 3.5 7-segment Character height 14 mm Other features Backlight Other options Protection IP65, default cable length 3.0 m;	LCD option	
Number of digits Character height Other features Backlight Other options Protection IP65, default cable length 3.0 m;	Operating temperature	0+50 °C
Character height 14 mm Other features Backlight Other options Protection IP65, default cable length 3.0 m;	Display dimensions	72 × 36 mm
Other features Backlight Other options Protection IP65, default cable length 3.0 m;	Number of digits	3.5 7-segment
Other options Protection IP65, default cable length 3.0 m;	Character height	14 mm
Protection IP65, default cable length 3.0 m;	Other features	Backlight
	Other options	
<u> </u>	Remote probe	Protection IP65, default cable length 3.0 m; max height 80 mm, max diameter 65 mm

Warranty

Specifications

This product is warranted to be free from defects in material and workmanship for a period of one year from the date of original sale. During this warranty period Manufacturer will, at its option, either repair or replace product that proves to be defective. This warranty is void if the product has been operated in conditions outside ranges specified by Manufacturer or damaged by customer error or negligence or if there has been an unauthorised modification.



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Carbon Monoxide Transmitter **E2618-CO**

User Manual



E2618-series transmitters belong to the PluraSens® family of multifunctional measurement instruments. The instruments utilise gas sensors of various types with excellent repeatability, stability and long lifetime

The devices are supplied either in duct-mount or wall-mount version. The wall mount version of the device is available with remote probe. The remote probe is connected to the main unit with shielded cable. Default connection cable length is 3 m.

E2618 series provides two independent analog outputs OUT1 and OUT2, user-selectable to 4-20 mA or 0-10 V, proportional either to gas concentration or temperature. RS485 Modbus RTU digital communication interface allows easy instrument configuration and integration into various automation systems.

A design with LCD indicator is available as an option.

The version of your transmitter is marked on the package.

Safety requirements

Always adhere to the safety provisions applicable in the country of use.

Do not perform any maintenance operation with the power on. Do not let water or foreign objects inside the device.

Operating conditions

The device should be used in explosion-safe (non ATEX -rated) indoor areas, without aggressive gases in the atmosphere. See **Specification** table for more details.

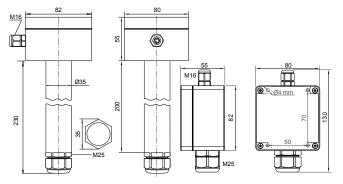
Installation and connections

There are no precise rules or standards to follow when installing the gas detectors. The following points must be taken into account:

- application (air quality control or leakage detection),
- properties of the space under investigation (room geometry, direction and velocity of air flows etc),
- detected gas (relative density to air, whether the gas is flammable, or toxic, or oxygen displacing),
- safety: strong vibrations, mechanical shock, and the sources of strong electromagnetic interference should be avoided,
- the device should be accessible for maintenance and repair.

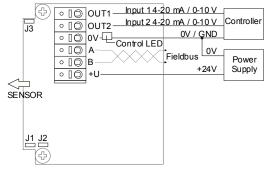
For early leakage detection install the sensor as close as possible to the potential leakage sources (flanges, valves, pressure reducers, pumps, etc), taking into consideration other points listed above. For general area monitoring without definite leakage sources, the detectors should be distributed evenly in the room. For personal safety control the detectors are installed in the breathing zone (at the height of the head of people or animals). Recommended sensor position is vertical, pointing downwards. See Installation guidelines section on the next page for more information.

1. <u>Wall mount version:</u> Unscrew four lid screws and detach the lid from the transmitter. Attach the device to a wall with screws passing through mounting holes (see dimensional drawing below).



<u>Duct mount version:</u> Cut hole with a diameter of 36...45 mm in the air duct at the chosen mounting place. Place the rubber flange aligning the holes in the flange and the air-duct and fix the flange with four self-tapping screws. Pass the sensor probe through the flange and adjust it to the appropriate depth. Unscrew four lid screws and detach the lid from the transmitter.

2. Use two M16 cable glands to pass the cables of the power supply and of the external devices. Attach the power cable to the device without turning it on. Using the connection diagram below, connect the analog outputs and digital interface terminals to the relevant devices according to your tasks.



- J1: OUT1 type (open: 4-20 mA; dosed: 0-10 V)
- J2: OUT2 type (open: 4-20 mA; dosed: 0-10 V)
- J3: return to factory settings

The screwless quick connect spring terminals on the E2618 series devices are suitable for a wide range of wires with cross-section 0,2...1,5 mm². We recommend to strip the wire end by 8...9 mm and tin it, or to use the wire end sleeves.

To connect the wire, insert the wire end into terminal hole. To disconnect, push the spring loaded terminal lever, pull the wire out, and release the lever.

Use twisted pair cable, e.g. LiYY TP 2×2×0,5 mm² or CAT 5, to connect the device to RS485 network. Use one pair for A and B wires and the second pair for common 0 V and power +U wires to connect the transmitter to Fieldbus network. Respect polarity. Overall length of all connections via RS485 interface should not exceed 1200 m. The type of each analog output can be independently changed between 4-20 mA and 0-10 V with jumpers J1 (OUT1) and J2 (OUT2).

With closed jumper the output is 0-10 V, with open jumper the output is 4-20 mA. By default both outputs OUT1 and OUT2 are assigned to gas concentration. The device has built-in temperature sensor which may be tied to any of the outputs. The output assignments and scales can be changed by Modbus commands.

We recommend to set the difference between the upper and bottom limits of the output scale not narrower than 20% of detection range (for CO detectors the scales down to 5% of range are allowed). In any case, do not set the output scale below the tenfold resolution of the device.

NOTE If you use a version with LCD, only OUT1 is available.

3. Turn on the power. The sensor heating up may take up to five minutes after switching on. During this period relays, analog outputs and Modbus interface are off. A LED placed on the PCB of the device allows to control the connection process. The LED response to different processes is presented in the table below.

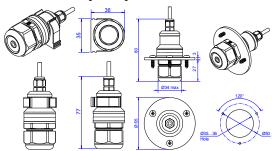
Process	LED mode
Sensor heating period	Blinking 0.5 Hz (50% on, 50% off)
Sensor absence or malfunction	Blinking 0.5 Hz (90% off, 10% on)
Modbus response	The signal is modulated with short on-off pulses, even single Modbus cycle is traceable*
Normal measurement	Continuous light

4. Make sure that the transmitter is properly mounted, the external devices connected, power on and control LED is constantly lit. Place the lid back and fix it with the screws. The device is ready to use.

It is recommended to keep the device on constantly, except for periods of maintenance and calibration, deplacement etc.

Sensor probe handling

The wall mount version of the transmitter is available with remote probe (see drawing below for dimensions). The remote probe is connected to the main unit with shielded cable. Default connection cable length is 3 m.The sensor probes of all types are equipped with a hydrophobic microporous PTFE filter to protect the sensor from dust, dirt and water drops. The filter may be replaced if it gets strongly contaminated. To replace the PTFE filter, unscrew the M25 nut and remove the old filter. Place a new filter into the nut and tighten it again.



NB! Never stab or press the filter near its centre where the sensor is located since this may damage the sensor.

The recommended orientation of sensor probe is vertical with the sensor tip pointing downwards. This prevents possible accumulation of condensed water on the sensor protection filter. The horizontal orientation is also suitable. Avoid upward position of the sensor tip.

Configuring

Gas transmitters E2618 share all functionalities of the PluraSens® multifunctional transmitter platform. The features and options include:

- digital output change rate limiting filter
- digital integrating (averaging) filter
- temperature measurement channel with internal sensor
- free assignment of each analog output to chosen parameter
- flexible setting of analog output scales for each output
- output shift and slope adjustment for calibration
- Modbus controlled forced state option for analog outputs.

E2618 can be configured through its RS485 interface by Modbus RTU commands. A standard configuration kit includes Model E1087 USB-EIA485 converter and a software pack. Please contact your Seller or the Manufacturer for more information.

Return to default settings

To reset the device's Slave ID, baudrate and sbit number to factory settings, proceed as follows:

- 1. De-energize the device
- 2. Connect the J3 jumper
- 3. Turn on the device
- 4. De-energize the device
- 5. Disconnect the J3 jumper
- 6. Turn on the device

RS485 communication interface

See Annex 1

E2618_UM_EN Annex 1. Modbus RTU Communication Reference

RS485 communication interface

Databits: 8 Supported Modbus functions: 03 - read multiple registers Parity: none 06 - write single register Stop bits: 1 or 2 Protocol: Modbus RTU

Communication parameters

Parameter	Permitted values	Default
Supported baudrates	1200, 2400, 4800, 9600, 19200, 38400, 57600	9600
Data bits	8	8
Parity	none	none
Stop bits	1, 2	1
Protocol	Modbus RTU	
Modbus functions	03 - read multiple registers 06 - write single register	
Error codes	01 - illegal function 02 - illegal data address 03 - illegal data value 04 - slave device failure (details of la can be read from register 0x0008)	st error 04

Modbus holding registers

Register addresses are shown 0-based, Addr in hexadecimal, Reg in decimal format.

Modbus holding register numbers MHR are shown in decimal 1-based format, and may be addressed either from 00001 or 40001 base.

Addr	Reg / MHR	RW	Description	Supported values (dec)	Default
0x0001	1	R	Hardware version		-
0x0002	2	R	Software version		-
0x0003	3	R	Product serial number	165535	-
0x0004	4	RW	Slave ID (net address) *	1247 **	1
0x0005	5	RW	Baudrate *	1200, 2400, 4800, 9600, 19200, 38400, 57600	9600
0x0006	6 /40007	RW	Response delay, ms	1255	10
0x0007	7 / 40008	RW	Stop bits *	1: no parity bit, 1 stop bit (default after factory reset) 2: no parity bit, 2 stop bits 3: odd parity, 1 stop bit 4: even parity, 1 stop bit NOTE: 3 and 4 are available starting from the Sofrware version 0x218 (dec. 536)	1
0x0008	8 /40009	R	Last error code	1255	-
0x0011	17 / 40018	RW	Restarts counter	write '42330' to restart device (no response will follow)	-
0x0097	151 /40152	R	Sensor type code	065535	0
0x0098	152 /40153	R	Output units code	0 - ppm, 1 - ‰, 2 - %	0

^{* -} The new value is applied after restart.

^{** -} Broadcast slave ID 0 can be used to assign a new ID to device with unknown ID. When addressing by ID 0 the device shall be the only Modbus instrument in the network. The device will not respond to Master command when addressed by ID 0.
*** - This value is dynamic and not kept in EEPROM after restart

E2618_UM_EN Annex 1. E2618 series Modbus holding registers (part 2)

Register addresses are shown 0-based, Addr in hexadecimal, Reg in decimal format.

Modbus holding register numbers MHR are shown in decimal 1-based format, and may be addressed either from 00001 or 40001 base.

Addr	Reg / MHR	RW	Description	Supported values (dec)	Default
			Zero adjustment for temperature data, °C ×		
0x00A2	162 / 40163		100	-32000+32000 (-320,00+320,00 °C)	0
0x00A5	165 / 40166		Zero adjustment for gas data, ADC	-32000+32000 ADC units	0
0x00A6	166 / 40167	RW	Slope adjustment for gas data	165535	512
0x00A7	167 / 40168	RW	Change rate limit for gas data, ppm (‰ for O₂) / s	132000, 0 - no limit	0
0x00A8	168 / 40169	RW	Integrating filter time constant, s	132000 (seconds), 0 - no filter	0
0x00C9	201 / 40202	RW	Parameter tied to analog output 1	0-none 1- temperature 2- gas concentration 9- forced Modbus control, value set in MHR / 40204	2
0x00CA	202 / 40203	RW	Parameter tied to analog output 2	0-none 1- temperature 2- gas concentration 9- forced Modbus control, value set in MHR / 40205	2
0x00CB	203 / 40204	RW	Forced value for analog output 1***	01000 (0,0%100,0% of output scale)	0
0x00CC	204 / 40205	RW	Forced value for analog output 2***	01000 (0,0%100,0% of output scale)	0
0x00FF	255 / 40256	RW	Sensor, analog outputs, LED and buzzer status	bit[0]=0/1 - sensor present/absent, read-only! bit[1]=0/1 - analog outputs deactivated/activated, bit[2]= 0/1 - in case the sensor is absent, turn signaling off/on analog output1, bit[3]=0/1 - in case the sensor is absent, turn on signaling with low current/high current on analog output1; if bit[2]==0 this bit will be ignored, bit[4]=0/1 - in case of sensor absent, turn signaling off/on analog output2 bit[5]=0/1 - in case of sensor absent, turn on signaling with low current/high current on analog output2; if bit[4]==0 this bit will be ignored, bit[6]=0/1 - current/voltage output detected on output1, read-only! bit[7]=0/1 - current/voltage output detected on output2, read-only! bit[8]=0/1 - LED deactivated/activated (always 0 for E2618), bit[9]=0/1 - buzzer deactivated/activated (always 0 for E2618)	
0x0100	256 / 40257	R	Raw temperature data, °C×100	signed integer, -4000+8500 (-40,00+85,00 °C)	
0x0101	257 / 40258	R	Raw gas sensor data	ADC data 04095	
0x0102	258 / 40259		Measured temperature, °C×100	signed integer, -4000+12500 (-40,00+125,00 °C)	
0x0103	259 / 40260	R	Gas concentration, ppm / ‰	signed integer, -32000+32000 (ppm / %)	
0x0105	261 / 40262		0% value for analog output 1	signed integer, -32000+32000 (ppm / ‰)	0
0x0106	262 / 40263		100% value for analog output 1	signed integer, -32000+32000 (ppm / ‰)	1000
0x0107	263 / 40264		0% value for analog output 2	signed integer, -32000+32000 (ppm / ‰)	0
0x0108	264 / 40265		100% value for analog output 2	signed integer, -32000+32000 (ppm / ‰)	1000

^{* -} The new value is applied after restart.

^{** -} Broadcast slave ID 0 can be used to assign a new ID to device with unknown ID. When addressing by ID 0 the device shall be the only Modbus instrument in the network. The device will not respond to Master command when addressed by ID 0.

*** - This value is dynamic and not kept in EEPROM after restart