

**PluraSens®**



# **Combustible Gas Transmitter**

**E2618-LEL**

**User Manual**

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## Acetylene

A colorless flammable gas, lighter than air. Mixtures with air are explosive. It results from the interaction of calcium carbide with water. In industrial production, acetylene is mainly manufactured by the pyrolysis of light hydrocarbons.

Acetylene is widely used for welding and cutting of metals. The usage of acetylene as a feedstock in the chemical industry declines due to cost and environmental considerations.

Synonyms/Trade Names: Ethine, Ethyne.

Chemical formula		HC≡CH
Molar weight		26
Relative gas density (to air)		0.90
Conversion		1 ppm = 1.06 mg/m <sup>3</sup>
Boiling point		-84 °C
Low explosive limit (LEL), % vol. in air		2.3* (2.5**)
Upper explosive limit (UEL), % vol. in air		100
Odor		Odorless or with a faint ethereal smell if pure. The commercial-grade may have a garlic-like smell due to impurities.
Hazards		Highly flammable. Gas/air mixtures are explosive. Forms explosive acetylide compounds with copper, mercury, silver & brasses (containing more than 66% copper). Asphyxiant. Non-toxic, but, when generated from calcium carbide, it can contain toxic impurities such as traces of phosphine and arsine.
Exposure limits (NIOSH)	REL C	2662 mg/m <sup>3</sup> /2500 ppm

## Butane

A colorless flammable gas that is heavier than air. The term "butane" is used for any of two structural isomers (n-butane or iso-butane, with unbranched and branched-chain respectively) or for their mixture. Occurs in light petroleum fractions.

Butane is used mainly as a fuel and as a feedstock in organic synthesis. It is applied also as a propellant in aerosol sprays and may be used as an ozone-friendly refrigerant.

Mixtures of butane with propane and other hydrocarbons are referred to as LPG (liquefied petroleum gas).

Chemical formula		n-butane $\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_3$	iso-butane $\text{CH}_3\text{CH}(\text{CH}_3)\text{CH}_3$
Molar weight		58	
Relative gas density (to air)		2.0	
Conversion		1 ppm = 2.38 mg/m <sup>3</sup>	
Boiling point		-0.56 °C	-11.7 °C
Low explosive limit (LEL), % vol. in air		1.4* (1.6**)	1.5* (1.8**)
Upper explosive limit (UEL), % vol. in air		8.4	9.6
Odor		Gasoline-like odor	
Hazards		Highly flammable. Inhalation of butane can cause euphoria, drowsiness, narcosis, asphyxia, cardiac arrhythmia, fluctuations in blood pressure, and temporary memory loss, when abused directly from a highly pressurized container, and can result in death from asphyxiation and ventricular fibrillation.	
Exposure limits (NIOSH)	TWA	1900 mg/m <sup>3</sup> /800 ppm	Not established

## Hexane

A colorless flammable gas that is heavier than air. Hexane is a constituent component of gasoline. It is widely used in solvents as it is cheap, relatively safe and largely unreactive. It is also used as an industrial cleaner and degreaser and is an ingredient in many consumer products.

Chemical formula		C <sub>6</sub> H <sub>14</sub>
Molar weight		86.18
Relative gas density (to air)		2.97
Conversion		1 ppm = 3.52 mg/m <sup>3</sup>
Boiling point		68.7 °C
Low explosive limit (LEL), % vol. in air		1.0* (1.2**)
Upper explosive limit (UEL), % vol. in air		7.5
Odor		Petroleum-like odor
Hazards		Highly flammable. Inhalation of hexane can cause irritation of respiratory tract, cough, mild depression, cardiac arrhythmias.
Exposure limits	TWA	1800 mg/m <sup>3</sup> /500 ppm

## Hydrogen

A colorless, odorless, flammable gas, that is much lighter than air. Mixtures with air are explosive. Results from the interaction of acids, bases, and water with active metals and from the electrolysis of aqueous solutions. In industrial production, the main source of hydrogen is hydrocarbons.

Chemical formula	H <sub>2</sub>
Molar weight	2
Relative gas density (to air)	0.07
Conversion	1 ppm = 0.0818 mg/m <sup>3</sup>
Boiling point	-252.88 °C
Low explosive limit (LEL), % vol. in air	4.0
Upper explosive limit (UEL), % vol. in air	75
Odor	Odorless
Hazards	Flammable forms explosive mixtures with air. Asphyxiant.
Exposure limits	not established

## Methane

A colorless flammable gas, the main component of natural gas, marsh gases. Methane results from bacterial decomposition of plant and animal matter (landfill gas).

Methane is widely used as a fuel and chemical feedstock.

Synonyms: Marsh Gas, Natural Gas, Carbon tetrahydride, Hydrogen carbide.

Chemical formula	CH <sub>4</sub>
Molar weight	16
Relative gas density (to air)	0.55
Conversion	1 ppm = 0.65 mg/m <sup>3</sup>
Boiling point	-161.49 °C
Low explosive limit (LEL), % vol. in air	4.4* (5.0**)
Upper explosive limit (UEL), % vol. in air	15
Odor	Odorless when pure. Methane used in the kitchens contains an odorant
Hazards	Highly flammable, mixtures with air are explosive. Asphyxiant.
Exposure limits	not established



## Octane

A colorless flammable gas that is heavier than air. Octane is a component of gasoline (petrol).

Chemical formula			$C_8H_{18}$
Molar weight			114.23
Relative gas density (to air)			3.86
Conversion			1 ppm = 4.67 mg/m <sup>3</sup>
Boiling point			125.6 °C
Low explosive limit (LEL), % vol. in air			1.0
Upper explosive limit (UEL), % vol. in air			6.5
Odor			Gasoline-like odor
Hazards			Highly flammable. Inhalation of octane may cause irritation of respiratory tract, depression, and pulmonary edema.
Exposure (NIOSH)	limits	TWA	350 mg/m <sup>3</sup> /75 ppm

## Propane

A colorless flammable gas that is heavier than air. It occurs in light petroleum fractions.

Propane is used mainly as a fuel and as a feedstock in organic synthesis. It is applied also as a propellant in aerosol sprays and may be used as an ozone-friendly refrigerant.

Mixtures of propane with butane and other hydrocarbons are referred to as LPG (liquefied petroleum gas).

Chemical formula		$\text{CH}_3\text{CH}_2\text{CH}_3$
Molar weight		44
Relative gas density (to air)		1.55
Conversion		1 ppm = 1.80 mg/m <sup>3</sup>
Boiling point		-42 °C
Low explosive limit (LEL), % vol. in air		1.7* (2.1**)
Upper explosive limit (UEL), % vol. in air		9.5
Odor		Odorless when pure. Commercially available propane for fuel purposes may contain odorant ("gas smell").
Hazards		Highly flammable, mixtures with air are explosive. Asphyxiant. May cause dizziness, confusion, excitation when inhaled.
Exposure limits (NIOSH)	TWA	1800 mg/m <sup>3</sup> / 1000 ppm
	IDLH	2100 ppm [10%LEL]

Conversion of ppm to mg/m<sup>3</sup> is calculated for 25°C and 1 atm.

\* according to new EU standards ('stirred' concentration of gas)

\*\* according to US standard ('still gas' method)

## Specifications

Detected gases	Acetylene, Butane, Hexane, Hydrogen, Methane, Octane, Propane, etc	
Sampling method	Diffusion	
Sensor type	Metal oxide semiconductor	Catalytic (pellistor)
Typical detection range	0...100% LEL	0...100% LEL
Resolution / digital unit	0.1% LEL	1% LEL
Response time T90	ca. 60 s	≤10 s
Sensor lifetime	> 5 years	> 5 years
Calibration interval	12 months	6 months
Operating conditions	-40...+70 °C	-40 to +70°C
	<95% RH non-condensing, 0,9...1,1 atm, Explosion-safe indoor areas, Normal ambient oxygen level Avoid strong mechanical shock, vibrations, or EMI Avoid exposure to corrosive gases or silicone-containing products <b>NOTE!</b> Transmitter with a catalytic type sensor is not suitable for acetylene detection	
Signal update	Every 1 second	
Power supply options	12...36 VDC (default) 24 VAC as option	
Power consumption	< 2 VA	
Load resistance	$R_L < (U_s - 2 V) / 22 \text{ mA}$ for 4-20 mA $R_L > 250 \text{ k}\Omega$ for 0-10 V mode	
Digital interface	RS485, Modbus RTU protocol No galvanic isolation	
Analog outputs	2 × 4-20 mA / 0-10 V, user settable	
Outputs assignment	OUT1 2 gas; OUT2 2 gas	
Output scale width	> 10 × resolution Recommended: 20-100% of the detection range	
Cable connections	Screwless spring-loaded terminals	
Enclosure	Grey ABS, wall mount, protection class IP65	
Dimensions	H82 × W80 × D55 mm	
CE marking	According to 2014/30/EU and 2014/35/EU, EN 50491-4-1:2012 EN 61000-6-3:2020, EN 61326-1:2013(EMC, emissions) EN 61000-6-1:2019, EN 61000-6-2:2019(EMC, Immunity)	

	EN 60079-29-1:2016, EN 60079-29-2:2015 and EN 60079-29-3:2014
<b>Other options</b>	
Remote probe	Protection IP65, default cable length 3.0 m; max height 80 mm, max diameter 65 mm

## Product description

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

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

Remote probe and duct mount versions are available.

The version of your transmitter is marked on the package. If the ⚠ symbol is marked on the product, consult the documentation for further information.

## Safety requirements

Misuse will impair the protection of the product. 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.

Removal of the PCB from the enclosure voids the warranty. Do not touch the electronic components directly, as they are sensitive to static electricity.

Connection diagrams can be found in the electrical connections section. The device might not perform correctly or be damaged if the wrong power supply is connected.

External circuits connected to the equipment should have sufficient insulation rating according to the environmental conditions and equipment power.

A disconnecting device that is marked as such and easily accessible should be included in the installation of this product.

## Operating conditions

The device should be used both in a non-hazardous area and in a basic electromagnetic environment, where the latter is defined in EN 61326-1. Avoid strong mechanical shock and vibrations. Avoid corrosive atmosphere and areas highly contaminated with dust, oil mist, etc. Keep the instrument away from direct sunlight. A sudden temperature or humidity change might affect the sensitivity of the sensor.

## Installation guidelines

Before proceeding with the installation it is mandatory to read the Safety requirements section and make sure to comply with all listed instructions. Installation standards EN 60079-29-2 and EN 45544-4 are also recommended for further instructions and related information about the installation. During the installation of the transmitter the following points must be considered:

- Application (air quality control or leakage detection.)
- Properties of the space under investigation (room geometry, direction, and velocity of airflows, etc.),
- For gases lighter than air install the sensor higher than the potential leakage/generation source or near the ceiling. Combustible gases lighter than air are hydrogen, methane, and acetylene. Propane, hexane, octane and butane are heavier than air and tend to sink. It is recommended to place the sensor lower than potential leakage or generation source.
- The device should be accessible for maintenance and repair.

The aforementioned conditions above will affect the coverage area of the device. however, the coverage area for a transmitter is usually between 2.5 to 5 meters radius.

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 transmitters should be distributed evenly in the room.

For personal safety control, the transmitters are installed in the breathing zone (at the height of the head of people or animals). The recommended sensor position is vertical, pointing downwards.

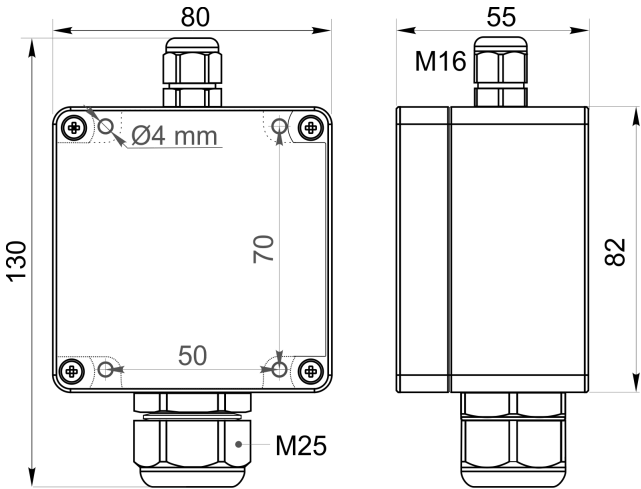
### Wall mount version

Unscrew four lid screws and detach the lid from the transmitter. Attach the device to a wall with screws passing through mounting holes (for dimensions see the drawing in the next section).

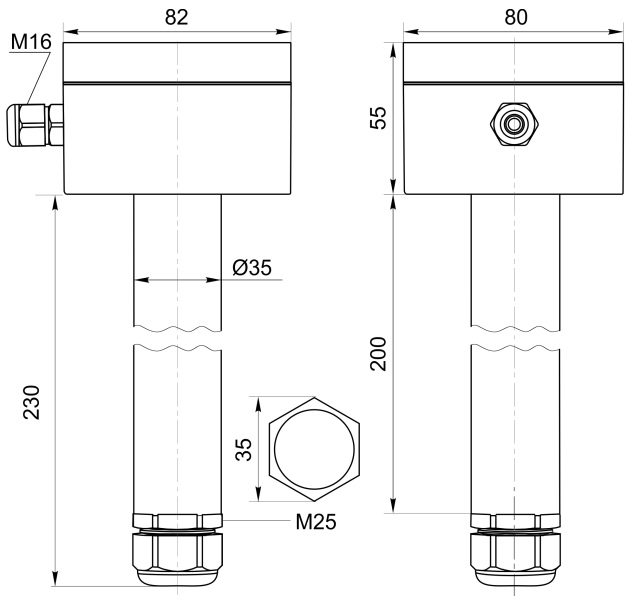
### Duct mount version

Cut a 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.

Mounting dimensions



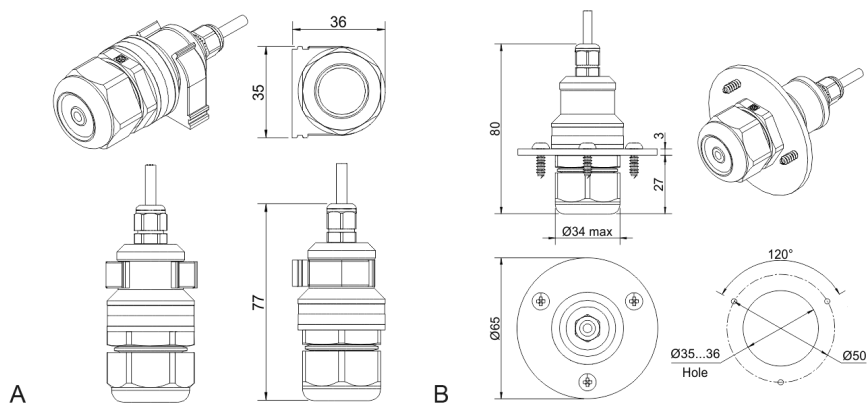
Wall mount version



Duct mount version

## Sensor probe handling

The wall mount version of the transmitter is available with a remote probe (see drawing below for dimensions). The remote probe is connected to the main unit with a shielded cable. The default remote probe cable length is 3 m.



- A) Wall mount remote probe with fixing clamp (default version),  
 B) Remote probe with rubber flange and three self-tapping screws (on request)

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 should be replaced if it gets strongly contaminated. To replace the PTFE filter, unscrew the sensor head cap and remove the old filter. Place a new filter into the cap and tighten it again.

**NOTE!** Never stab or press the filter near its center where the sensor is located since this may damage the sensor. Do not remove the filter as it may cause the device to show incorrect values and/or break the sensor.

The recommended orientation of the sensor probe is vertical with the sensor tip pointing downwards. This prevents the possible accumulation of condensed water on the sensor protection filter.

## Gas sensor replacement procedures

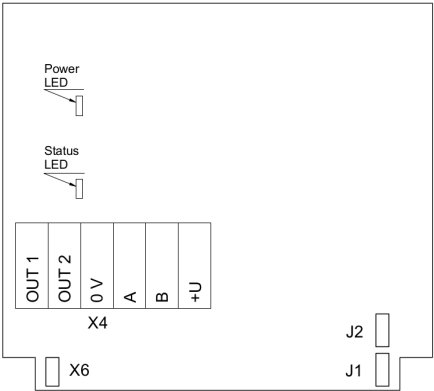
1. Remove the sensor head cap from the device (or the remote probe),
2. Remove the PTFE filter (if it is not removed within the cap),
3. Remove the O-ring rubber,
4. Detach the pellistor (catalytic) sensor from the device,
5. Insert the new pellistor (catalytic) sensor inside,
6. Put back the O-ring rubber, PTFE filter, and the head cap, respectively.

**NOTE!** Metal oxide semiconductor sensors are not replaceable!



## Electrical connections

Unscrew four lid screws and detach the lid from the device. Use the M16 cable gland to let in 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.



PCB without PSU and relays

Jumpers	
J1	OUT1 type (open: 4-20 mA; closed 0-10 V)
J2	OUT2 type (open: 4-20 mA; closed 0-10 V)
X6	Reset Modbus network parameters to default
X4 terminals	
OUT1	4-20 mA / 0-10 V output
OUT2	4-20 mA / 0-10 V output
0V	0 V / 24 VAC Neutral (optional)
A	RS485 A / Data +
B	RS485 B / Data -
+U	+24 VDC / 24 VAC Phase (optional)

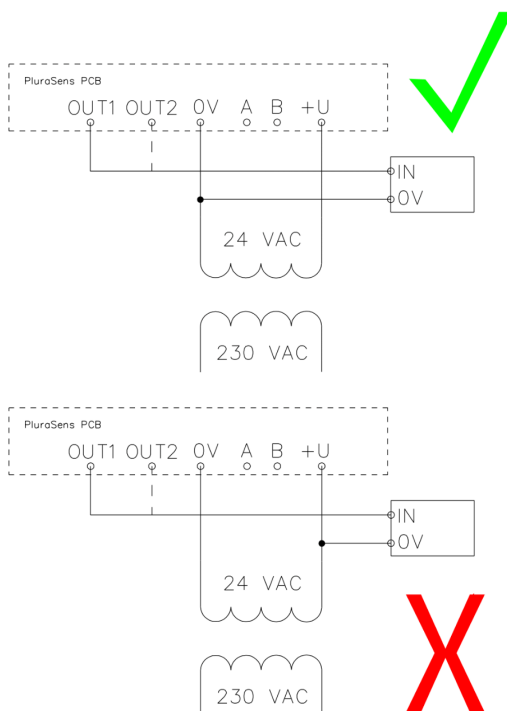
The screwless quick connect spring terminals on the E2618 series devices are suitable for a wide range of wires with a cross-section of 0.2...1.5 mm<sup>2</sup>. We recommend stripping the wire end by 8...9 mm and using wire end sleeves.

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

Use a twisted-pair cable, e.g. LiYY TP 2×2×0.5 mm<sup>2</sup> or CAT 5, to connect the device to the RS485 network. A and B on the device represent DATA+ and DATA- respectively, polarity must be respected when connecting to an external RS485 network.

Both analog outputs can be independently changed between 4-20 mA and 0-10 V type using jumpers J1 (OUT1) and J2 (OUT2). By closing pins on a specific jumper the related output is 0-10 V, with an open jumper the output is 4-20 mA. Power restart is required after changing the position of the jumpers.

### Correct and incorrect cabling for 24 VAC



## Operation

Turn on the power. The instrument warm-up time for both types of sensors takes about 5 minutes after switching on and final sensor stabilization time to maximum accuracy takes about 1 hour. The operating status is indicated by the LED on the PCB of the device. The control LED (red) response to different processes is presented in the following table:

Mode	LED mode
During calibration mode or sensor heating period (if activated)	0.5 Hz (50% on, 50% off)
During Modbus communication cycle	Short on-off pulses
Normal operating/measurement	Continuously on or off

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

## Maintenance

Do not perform any maintenance operation with the power on.

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

## Calibration

E2618-LEL gas transmitters have been calibrated by the Manufacturer with standard gas mixtures before delivery. Provided that the sensor is used under moderate conditions, the recommended interval for field recalibration is 12 months for the MOS sensor and 6 months for the catalytic sensor. Please contact your dealer for more information.

Delivery set

- Gas transmitter E2618 (wall mount, duct mount, or remote probe version)
- Mounting accessories:
  - 4 screws with plastic dowels for wall mount version
  - Square Rubber flange for Duct mount option
  - Round rubber flange for Remote probe option
  - Fixing clamp for Remote probe option



Order code for E2618-LEL options

E2618 options	Order code
Remote probe, 3 m cable	E2618-LEL-RP33-3
Remote probe, 10 m cable	E2618-LEL-RP33-10
Duct mount option, stem Ø35×L230 mm	E2618-LEL-DM
Integrated 24 VAC power supply module	E2618-LEL-24VAC
Remote LCD single value display, wall mount box 115 × 65 × 40mm, 3 m cable	E2618-LEL-RLCD3

## Configuring

A standard configuration kit includes a USB-RS485 converter, fixed flow regulator, gas tubing with applicators, and a software pack. Please contact your Seller for more information.

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
- Free assignment of each analog output to the chosen parameter
- Flexible setting of analog output scales for each output
- Output zero and slope adjustment for calibration

The output scales can be changed by Modbus commands by using the configuration software and the standard configuration kit (see Modbus RTU Communication).

## Return to default settings

To reset the device's Slave ID, baud rate, and stop bit numbers to factory settings, proceed as follows:

1. De-energize the device
2. Connect the X6 jumper
3. Turn on the device
4. De-energize the device
5. Disconnect the X6 jumper
6. Turn on the device

# Modbus RTU Communication

## RS485 communication interface

Databits: 8 Parity: none / odd / even Stop bits: 1 or 2 Protocol: Modbus RTU	Supported Modbus functions: 03 – Read multiple registers 06 – Write a single register
---	---

## Communication parameters

Parameter	Permitted values	Default
Supported baud rates	1200, 2400, 4800, 9600, 19200, 38400, 57600	9600
Data bits	8	8
Parity	none / odd / even	none
Stop bits	1, 2	1
Protocol	Modbus RTU	
Modbus functions	03 - Read multiple registers 06 - Write a single register	
Error codes	01 – Illegal function 02 – Illegal data address 03 – Illegal data value 04 – Slave device failure (details of last error 04 can be read from register 0x0008)	

## Modbus holding registers

Register addresses are shown 0-based, Address in hexadecimal, Reg in decimal format. Modbus holding register numbers MHR are shown in the decimal 1-based format and may be addressed either from 00001 or 40001 base.

Address	Reg / MHR	RW	Description	Supported values (dec)	Default
0x0001	1 / 40002	R	Hardware version		-
0x0002	2 / 40003	R	Software version		-
0x0003	3 / 40004	R	Product serial number	1...65535	-
0x0004	4 / 40005	RW	Slave ID (net address) *	1...247 **	1

0x0005	5 / 40006	RW	Baud rate *	1200, 2400, 4800, 9600, 19200, 38400, 57600	9600
0x0006	6 / 40007	RW	Response delay, ms	1...255	10
0x0007	7 / 40008	RW	Stop bits, parity bit *	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 <b>NOTE:</b> 3 and 4 are available starting from the Software version 0x218 (dec. 536)	1
0x0008	8 / 40009	R	Last error code	1...255	-
0x0011	17 / 40018	RW	Technological: age of last data in seconds (read) / restart (write)	0...65535 s (read), writing 42330 restarts the instrument	-

0x00A5	165 / 40166	RW	Zero adjustments for gas data, ADC	-32000...+32000 ADC units	0
0x00A6	166 / 40167	RW	Slope adjustment for gas data	1...65535	512
0x00A7	167 / 40168	RW	Change rate limit for gas data, ppm (% for O <sub>2</sub> ) / s	1...32000, 0 - no limit	0
0x00A8	168 / 40169	RW	Integrating filter time constant, s	1...32000 (seconds), 0 - no filter	0
Address	Reg / MHR	RW	Description	Supported values (dec)	Default
0x00C9	201 / 40202	RW	Parameter tied to analog output 1	0 – None 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 2 – Gas concentration 9 – Forced Modbus control, value set in MHR / 40205	2
0x00CB	203 / 40204	RW	Forced value for analog output 1***	0...1000 (0.0%...100.0% of output scale)	0
0x00CC	204 / 40205	RW	Forced value for analog output 2***	0...1000 (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, <b>RO</b> 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, <b>RO</b> bit[7]=0/1 – current/voltage output detected on output2, <b>RO</b> bit[8]=0/1 – LED deactivated/activated bit[9]=0/1 – buzzer deactivated/activated (always 0 for E2618) bit[10]=0/1 - LED is on/off in normal condition	
Address	Reg / MHR	RW	Description	Supported values (dec)	Default
0x0101	257 / 40258	R	Raw gas sensor data	0...4095, ADC units	
0x0103	259 / 40260	R	Gas concentration, gas units	0...65535, gas units	
0x0105	261 / 40262	RW	0% value for analog output 1	-32000...+32000 (gas unit/°C)	User defined
0x0106	262 / 40263	RW	100% value for analog output 1	-32000...+32000 (gas unit/°C)	User defined
0x0107	263 / 40264	RW	0% value for analog output 2	-32000...+32000 (gas unit/°C)	User defined
0x0108	264 / 40265	RW	100% value for analog output 2	-32000...+32000 (gas unit/°C)	User defined



\* – The new value is applied after restart.

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

\*\*\* – This value is dynamic and not kept in EEPROM after a restart.

## Warranty

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

## Manufacturer contacts

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