



Solvent Vapor Detector-Transmitter

E2648-VOC

User Manual



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Acetone

A colorless organic solvent with a characteristic pungent odor that is volatile and flammable with the chemical formula $(CH_3)_2CO$.

Synonyms/Trade Names: Dimethyl ketone, Ketone propane, 2-Propanone.

Chemical formula		(CH ₃) ₂ CO
Molar weight		58
Relative gas den	sity (to air)	2.0
Conversion*		1 ppm = 2.38 mg/m ³
Boiling point		56.11 °C
Low explosive lin	mit (LEL), % vol. in air	2.5
Upper explosive limit (UEL), % vol. in air		12.8
Odor		Characteristic pungent smell
Hazards		Highly flammable. Slightly toxic in normal use. Irritant causing mild skin irritation and moderate to severe eye irritation. At high vapor concentrations, it may depress the CNS.
Exposure limits	8 hours (2000/39/EC)	1900 mg/m³ / 500 ppm
	NIOSH REL TWA	590 mg/m³ /250 ppm
	IDLH (NIOSH)	2500 ppm [10%LEL]
1		

Benzene

A colorless liquid with an aromatic odor that is highly flammable with the molecular formula $C_6 H_6.$

Synonyms/Trade Names: Benzol, Phenyl hydride.

Chemical formula	I	C ₆ H ₆
Molar weight		78
Relative gas dens	ity (to air)	2.69
Conversion*		1 ppm = 3.19 mg/m³
Boiling point		80 °C
Low explosive lim	it (LEL), % vol. in air	1.2
Upper explosive li	mit (UEL), % vol. in air	7.8
Odor		Hyacinth-like odor
Hazards		Highly flammable. Irritant. Carcinogen. May cause dizziness; headache, nausea, staggering gait; anorexia, lassitude. Target organs: eyes, skin, respiratory system, blood, central nervous system, bone marrow.
Exposure limits	Ca TWA	0.319 mg/m³ /0.1 ppm
(NIOSH REL)	STEL 15 minutes	1 ppm
	Ca IDLH	500 ppm

Ethanol

A clear colorless liquid with a faintly sweet odor and pungent taste.

Synonyms/Trade Names: ethyl, alcohol.

Chemical formula		CH₃CH₂OH
Molar weight		46
Relative gas density (to	o air)	1,59
Conversion*		1 ppm = 1.89 mg/m³
Boiling point		78.37°C
Low explosive limit (LE	EL), % vol. in air	3 - 3.3
Upper explosive limit (UEL), % vol. in air		19
Odor		The characteristic smell of alcohol
Hazards		Highly flammable. Gas/air mixtures are explosive. Inhalation of vapors leads to cough, headache, fatigue, and drowsiness. High concentrations may damage the fetus. Repeated high exposure may affect the liver and the nervous system.
Exposure limits according to	TWA 8 hours	1210 mg/m³ / 1000 ppm
Commission Directive 2006/15/EC	STEL 15 minutes	_

Ethyl acetate

A colorless organic compound with a sweet pear-like smell that is highly flammable.

Synonyms/Trade Names: ethyl ester, acetic ester, EA, EtOAc.

Chemical formula		C ₄ H ₈ O ₂
Molar weight		88
Conversion*		1 ppm = 3.60 mg/m ³
Boiling point		77.1 °C
Low explosive limit (L in air	EL), % vol.	2
Upper explosive limit vol. in air	(UEL), %	11.5
Odor		Sweet "pear" smell
Hazards		Flammable. Short-term exposure to high levels of ethyl acetate results first in irritation of the eyes, nose, and throat, followed by headache, nausea, vomiting, sleepiness, and unconsciousness.
Exposure limits (NIOSH)	TWA 8 hours	1400 mg/m³ /400 ppm
	IDLH	2000 ppm [10%LEL]

Toluene

A clear, colorless liquid with a sweet smell that is highly flammable.

Synonyms/Trade Names: methylbenzene, phenylmethane.

Chemical formula		C ₆ H ₅ CH ₃ CH ₃
Molar weight		92
Conversion*		1 ppm = 3.77 mg/m ³
Boiling point		110.7°C
Low explosive limi in air	Low explosive limit (LEL), % vol. 1.1 -	
Upper explosive I vol. in air	imit (UEL), %	6.75-7.1
Odor		Characteristic "chemical" smell
Gas/air mixtures are exp Inhalation possible effects: irritation eyes, nose; las (weakness, exhaustion), confusion, euphoria, diz headache; dilated pupils, lacrimation (discharge of tears); a muscle fatigue, insomnia; paraesthesia; dermatitis; liver,		Highly flammable. Gas/air mixtures are explosive. Inhalation possible effects: irritation eyes, nose; lassitude (weakness, exhaustion), confusion, euphoria, dizziness, headache; dilated pupils, lacrimation (discharge of tears); anxiety, muscle fatigue, insomnia; paraesthesia; dermatitis; liver, kidney damage
Exposure limits	TWA	192 mg/mm³ / 50 ppm
according to Commission Directive 2006/15/EC	STEL	384 mg/mm ³ / 100 ppm

Xylene

A colorless, flammable liquid with a chemical smell. Xylenes are produced by the methylation of toluene and benzene.

The term is used for any of three isomers of dimethylbenzene, or a combination thereof.

Synonyms/Trade Names: xylol, dimethylbenzene.

Chemical formula				$C_6H_4(CH_3)_2$
Isomers		ortho-xylene	meta-xylene	_{ңс} - Д-сң <i>para</i> -xylene
Molar weight				106
Conversion*			1 ppm = 4	4.34 mg/m ³
Boiling point		144.4 °C	139 °C	138.35 °C
Low explosive lim in air	it (LEL), % vol.	0.9 - 1.1		
Upper explosive lin in air	nit (UEL), % vol.	. 6.0-7.0		
Odor		Characteristic "chemical" smell		
Hazards		Flammable. Inhaling can cause dizziness, headache, drowsiness, and nausea.		
Exposure limits according to	TWA 8 hours	221 mg/mm³ / 50		n³ / 50 ppm
Commission Directive 2000/39/EC	STEL 15 minutes	4	142 mg/mm	³ / 100 ppm

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

Specifications

Sampling method		Diffusion
Sensor type		Metal oxide semiconductor
Default calibration		Toluene
Typical detection range	0100% LEL	Up to 01000 ppm
Resolution / digital unit	0.1% LEL	1 ppm
Response time T90		< 120 s
Sensor lifetime		> 5 years
Calibration interval		12 months
Signal update		Every 1 second
Load resistance		R _L < (Us - 2 V) / 22 mA for 4-20 mA R _L > 250 kOhm for 0-10 V mode
Digital interface		RS485, Modbus RTU protocol No galvanic isolation
Cable connections		Screwless spring-loaded terminal
Power supply	1236 VDC (default), 24 VAC or 230 VAC as options	
Power consumption		< 2 VA
Analog outputs	2 × 4-20 mA / 0-10 V, user settable	
Outputs assignment	OUT1 2 gas; OUT2 2 gas	
Outputs scale width	Recommen	> 10 × resolution ded: 20-100% of the detection range
Enclosure	Die-cast aluminu	m, wall mount, protection class IP66
Dimensions	H120 × W125 × D57 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	
Operating conditions	-40+70 °C; <95% RH non-condensing, 0,91,1 atm Explosion-safe areas Normal ambient oxygen level Avoid exposure to corrosive gases or silicone-containing products	

Relay option		
Output relays		2 × SPST relays (closing contact), 250 VAC / 30 VDC, 5 A max
Alarm setpoints (set/release)	RE1 (LOW): 20/16 % LEL; RE2 (HIGH): 50/40% LEL	RE1 (LOW): 100/80 ppm; RE2 (HIGH): 300/240 ppm (for 0500 ppm range)
Other options		
Remote probe		tion IP65, default cable length 3.0 m; height 80 mm, max diameter 65 mm

Product description

E2648 series heavy duty detectors-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. Due to its IP66 enclosure of die-cast aluminum, the device may be used under harsh conditions.

E2648 series provides two independent analog outputs OUT1 and OUT2, user-selectable to 4-20 mA or 0-10 V, proportional to gas concentrations. RS485 Modbus RTU digital communication interface allows easy instrument configuration and integration into various automation systems.

The following features are available as an option:

- Two relays RE1 and RE2 with closing contacts. Relay outputs can be used to switch alarm sirens, ventilation fans, shut-off valves, or other actuators,
- 24 VAC or 230 VAC as options for power supply module,
- Remote probe.

The version of your detector is marked on the package. If the symbol Λ is marked on the equipment, 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 (the instrument is intended for leakage control.)
- Properties of the space under investigation (room geometry, direction, and velocity of airflows, etc.),
- Solvent vapors are heavier than air, so the gas detector-transmitter should be placed near the floor or potential leakage or formation 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.

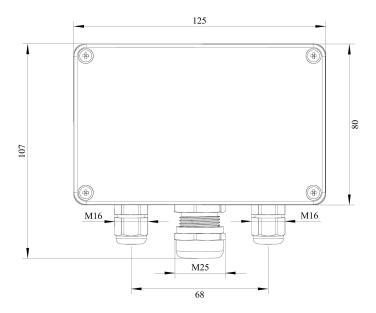
Do not locate the detector close to ventilation openings and strong air currents. Avoid the areas without air circulation (corners, niches) as well.

For general area monitoring without definite leakage sources, the detectors should be distributed evenly in the room.

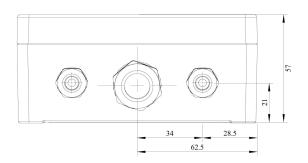
For personal safety control, the detectors are installed in the breathing zone (at the height of the head of people or animals). The recommended sensor position is vertical, pointing downwards.

Unscrew four lid screws and detach the lid from the transmitter. Attach the device to a wall with screws passing through mounting holes. The device is fixed on the wall using two holes located outside the sealed area of the device.

Mounting dimensions



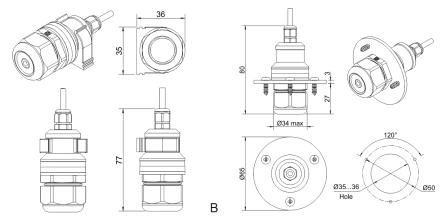
Front view



Bottom view

Sensor probe handling

The E2648 series devices are available with a remote probe. The remote probe is connected to the main unit with a shielded cable. The default remote probe cable length is 3 m.



А

- 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.

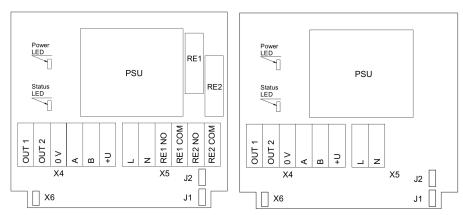
NOTE! Never stab or press the filter near its center where the sensor is located since this may damage the sensor. Do not remove the filter as it may cause the device to show incorrect values and/or break the sensor.

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.

NOTE! Metal oxide semiconductor sensors are not replaceable.

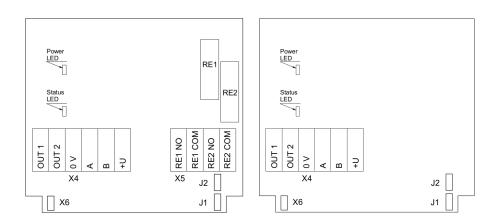
Electrical connections

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.



Version with PSU and relays

Version with PSU and without relays



Version without PSU and with relays

Version 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 +
В	RS485 B / Data -
+U	+24 VDC / 24 VAC Phase (optional)
X5 terminals (optional)	
L	90265 VAC Phase
N	90265 VAC Neutral
RE1 NO	Relay 1, normally open terminal
RE1 COM	Relay 1, common terminal
RE2 NO	Relay 2, normally open terminal
RE2 COM	Relay 2, common terminal

The screwless quick connect spring terminals on the E2648 series devices are suitable for a wide range of wires with a cross-section of 0.2...1.5 mm². We recommend striping 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.

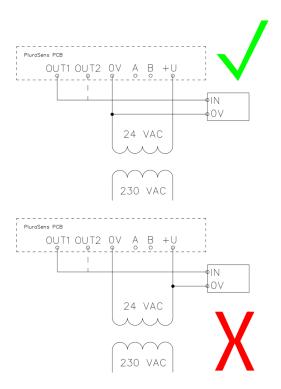
Use a twisted-pair cable, e.g. LiYY TP $2 \times 2 \times 0.5 \text{ mm}^2$ or CAT 5, to connect the device to the RS485 network. A and B on the device represent DATA+ and DATA- respectively, polarity must be respected when connecting to an external RS485 network.

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.

NOTE! The outputs are not galvanically isolated from the external power supply and share a common 0V. Allowed load resistance limits are stated in the Specifications table. To power the instrument from an external power source, connect terminals 0V and +U to the source. If the integrated mains power supply module is used, connect terminals L and N to the mains.

NOTE! Actuator short-circuits should be avoided, to protect the instrument relays using external fuses or safety switches.

Correct and incorrect cabling for 24 VAC



Operation

Turn on the power. The instrument warm-up time takes about 5 minutes after switching on and the final sensor stabilization time to maximum accuracy takes about 60 minutes. 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)
Relay 1 turned on	Blinking 1 Hz (50% on, 50% off)
Relay 2 turned on	Blinking 2 Hz (50% on, 50% off)
During the 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, the power LED (green) on, and the control LED (red) is constantly lit. Make certain that the cable glands are properly tightened to ensure the conformity to IP66 protection class. 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

E2648-VOC detectors have been calibrated by the Manufacturer with standard gas mixtures before delivery. Provided that the sensor is used under moderate conditions, field recalibration is recommended every 12 months. Please contact your dealer for more information.

Delivery set

- Detector-transmitter E2648
- Mounting accessories:
 - 2 screws with plastic dowels
 - Fixing clamp for remote probe versions



Order code for E2648-VOC options

E2648 options	Order code
Remote probe, 3 m cable	E2648-VOC-RP33-3
Remote probe, 10 m cable	E2648-VOC-RP33-10
Integrated 90265 V mains power supply module	E2648-VOC-230
Integrated 24 VAC power supply module	E2648-VOC-24VAC
Two SPST relays	E2648-VOC-R

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.

Detectors- transmitters E2648 share all functionalities of the PluraSens® multifunctional 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
- Free assignment of each of two relays to the chosen parameter
- Several relay control logic modes
- Switch delays and minimum on/off state durations for each relay

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
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Communication parameters

Parameter	Permitted values	Default
Supported baud rates	1200, 2400, 4800, 9600, 19200, 38400, 57600	9600
Data bits	8	8
Parity	rrity none / odd / even	
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 0x000) 	08)

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	165535	-
0x0004	4 / 40005	RW	Slave ID (net address) *	1247 **	1
0x0005	5 / 40006	RW	Baud rate *	1200, 2400, 4800, 9600, 19200, 38400, 57600	9600

0x0006	6 / 40007	RW	Response delay, ms	1255	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 NOTE : 3 and 4 are available starting from the Software version 0x218 (dec. 536)	1
0x0008	8 /40009	R	Last error code	1255	-
0x0011	17 / 40018	RW	Technological: age of last data in seconds (read) / restart (write)	065535 s (read), writing 42330 restarts the instrument	-

0x00A5	165 / 40166	RW	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	The change rate limit for gas units /s	132000, 0 - no limit	0
0x00A8	168 / 40169	RW	Integrating filter time constant, s	132000 (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***	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
0x00D3	211 / 40212	RW	Parameter tied to relay RE1	0 -none 2 - gas concentration 9 - control by Modbus control, state set in MHR / 40214	2

0x00D4	212/ 40213	RW	Parameter tied to relay RE2	0 - none 2 - gas concentration 9 control by Modbus control, state set in MHR / 40215	2
0x00D5	213 / 40214	RW	Forced state for relay RE1***	0 –off, 1 – on	0
0x00D6	214/ 40215	RW	Forced state for relay RE2***	0 – off, 1 – on	0
0x00D7	215 / 40216	RW	Switching delay for relay RE1	01000 (s)	0
0x00D8	216 / 40217	RW	Switching delay for relay RE2	01000 (s)	0
0x00D9	217 / 40218	RW	Minimal on/off time for relay RE1	01000 (s)	0
0x00DA	218 / 40219	RW	Minimal on/off time for relay RE2	01000 (s)	0

Address	Reg / MHR	RW	Description	Supported values (dec)	Default
0x00DB	219 / 40220	RW	Control logic for relay RE1	$1 \xrightarrow{4}_{H} \xrightarrow{2}_{H} \xrightarrow{4}_{H}$ $0 - \text{none}$ $1 - \text{relay on at high values}$ $2 - \text{relay on at low values}$ $3 - \text{relay on at values within}$ the range $4 - \text{relay on for the values}$ out of the range	0
0x00DC	220 / 40221	RW	Control logic for relay RE2	$1 \xrightarrow{1}_{L} \xrightarrow{1}_{H} \xrightarrow{1}_{H}$	0

0x00DD	221 / 40222	RW	LOW setpoint for relay RE1	065535 (gas units)	see Specifications
0x00DE	222 / 40223	RW	HIGH setpoint for relay RE1	065535 (gas units)	see Specifications
0x00DF	223 / 40224	RW	LOW setpoint for relay RE2	065535 (gas units)	see Specifications
0x00E0	224 / 40225	RW	HIGH setpoint for relay RE2	065535 (gas units)	see Specifications

Address	Reg / MHR	RW	Description	Supported values (dec)	Default
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 signaling with low current/high current on analog output2 bit[6]=0/1 - current/voltage output detected on output1, read-only! bit[6]=0/1 - current/voltage output detected on output2, read-only! bit[8]=0/1 - LED deactivated/activated, bit[9]=0/1 - LED deactivated/activated bit[10]=0/1 - LED and buzzer syncing off/on with RE1 bit[12]=0/1 - LED and buzzer syncing off/on with RE2	user defined

0x0101	257 / 40258	R	Raw gas sensor data	04095, ADC units	
0x0103	259 / 40260	R	Gas concentration, gas units	signed integer, -32000+32000 (gas units)	
0x0105	261 / 40262	RW	0% value for analog output 1	-32000+32000 gas units	User defined
0x0106	262 / 40263	RW	100% value for analog output 1	-32000+32000 gas units	User defined
0x0107	263 / 40264	RW	0% value for analog output 2	-32000+32000 gas units	User defined
0x0108	264 / 40265	RW	100% value for analog output 2	-32000+32000 gas units	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

Evikon MCI OÜ

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