



E2608 Series

Stationary detectors and transmitters
for combustible and toxic gases

E2608 Series

E2608-C2H4

E2608-CH4

E2608-CI2

E2608-CO

E2608-CO2-10K

E2608-CO2-50K

E2608-ETO

E2608-H2S

E2608-HFC

E2608-LEL

E2608-NH3-E (低濃度)

E2608-NH3-S(高濃度)

E2608-NO

E2608-NO2

E2608-O₂

E2608-O2-L

E2608-O3

E2608-PID

E2608-SO2

E2608-VOC

Order Informations

型號	氣體類型	安裝方式	電源	Relay	濃度範圍
E2608					
	如上表				
		W(壁掛式)			
		RP33-3(外拉3M)			
		RP33-10(外拉10M)			
		DM(風管式)			
			DC(11~30V DC)		
			AC(90~265V AC)		
				N(不需要)	
				設定點×2(請詳述)	
					範圍

EX : E2608-O3-W-DC-N 0~5ppm

Ethylene Detector-Transmitter E2608-C2H4



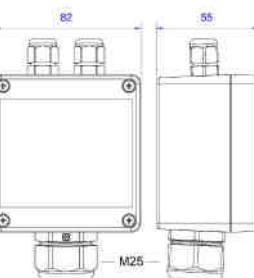
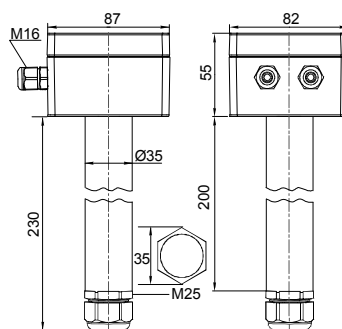
Features

- Wall-mount or duct-mount version
- Industrial IP65 housing
- Two relays for alarm / ventilation control
- Two analog outputs settable to 4-20 mA or 0-10 V
- RS485 Modbus RTU digital interface
- Attached or remote sensor

Specifications

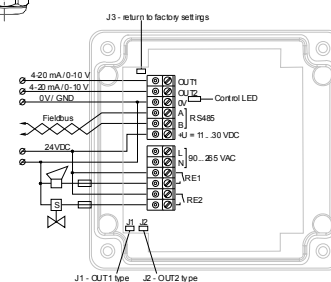
Detected gas	ethylene
Calibration	ethylene
Sensing method	electrochemical
Sampling method	diffusion
Detection ranges	0...10 ppm C ₂ H ₄ (peak 20ppm) 0...200 ppm C ₂ H ₄ (peak 500 ppm) 0...1500 ppm C ₂ H ₄ (peak 2000 ppm)
Resolution / digital unit	0,1 ppm C ₂ H ₄ 1 ppm C ₂ H ₄ 1 ppm C ₂ H ₄
Repeatability	<2 % of signal
Response time	<60 seconds
Maintenance interval	6 months
Sensor lifetime	2 years
Self-diagnostics	full functionality check at start-up
Warm-up time	≤ 1 min
Power supply	11...30 VDC, 24 VAC or 90...265 VAC
Power consumption	< 2 VA
Digital interface	RS485, Modbus RTU protocol
Analog outputs	2 × 4-20 mA / 0-10 V, user settable
Output scale width	recommended: 20-100% of the range; > 10 × resolution in any case
Output relays	2 × SPST relays (closing contact), 250 VAC / 30 VDC, 5 A max
Alarm set-points	determined by user within 5-95% of the detection range
Enclosure	light grey ABS plastic, wall mount, protection class IP65
Dimensions	H85 × W82 × D55 mm
Remote sensor probe	protection IP65, shielded cable default cable length 3.0 m
Operating environment	industrial indoor and outdoor locations
Operating conditions	-20 to +50°C, 15...90 %RH; pressure 0,9...1,1 atm; non ATEX rated spaces non aggressive atmosphere

Wall mount version

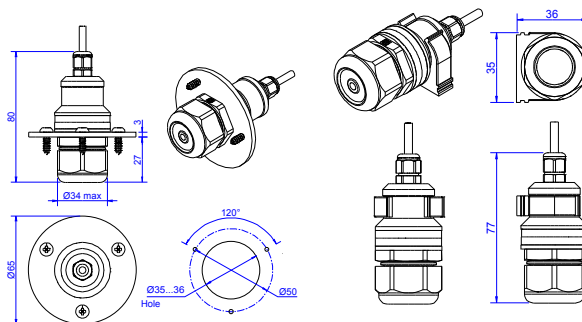


Duct mount version

Connection diagram



Remote probe



Methane Detector-Transmitter E2608-CH4


IP65
**4-20mA
0-10V**
**RS485
Modbus**


Features

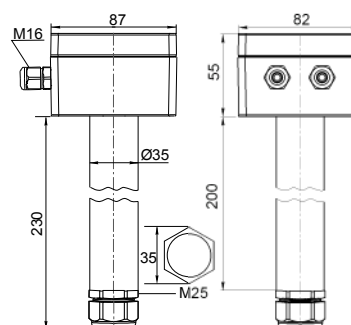
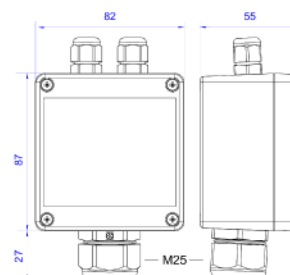
- Wall-mount or duct-mount version
- Industrial IP65 housing
- Two relays for alarm / ventilation control
- Two analog outputs settable to 4-20 mA or 0-10 V
- RS485 Modbus RTU digital interface
- Attached or remote sensor

Specifications

Calibration	Methane CH ₄	
Sensor type	metal-oxide semiconductor catalytic bead on demand	
Sampling method	diffusion	
Sensor type	MOS	catalytic
Typical detection range	0...100% LEL	0...100% LEL
Resolution / digital unit	0.1% LEL	1% LEL
Response time T90	ca. 60 s	8 s
Sensor lifetime	> 5 years	> 2 years
Calibration interval	12 months	3...6 months
Operating conditions	-30...+70 °C	-20 to +60°C
	<95 %RH, pressure 0,9...1,1 atm; non ATEX rated spaces normal ambient oxygen level avoid strong mechanical shock, vibrations or EMI; avoid exposure to corrosive gases or silicone containing products	
Signal update	every 1 second	
Self-diagnostics	full functionality check at start-up	
Warm-up time	< 3 minutes, depending on unpowered period and atmosphere	
Power supply	11...30 VDC, 24 VAC or 90...265 VAC	
Power consumption	< 2 VA	
Digital interface	RS485, Modbus RTU protocol	
Analog outputs	2 × 4-20 mA / 0-10 V, user settable	
Output scale width	recommended: 20-100% of the range; > 10 × resolution in any case	
Output relays	2 × SPST relays (closing contact), 250 VAC / 30 VDC, 5 A max	
Default alarm set-points	LOW: set 20 %LEL, release 16% LEL; HIGH: set 50%LEL, release 40% LEL	
Enclosure	light grey ABS plastic, wall mount, protection class IP65	
Dimensions	H85 × W82 × D55 mm	
Remote sensor probe	protection IP65, shielded cable default cable length 3.0 m	
Operating environment	industrial indoor and outdoor locations	

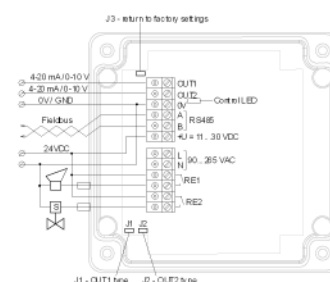
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Wall mount version

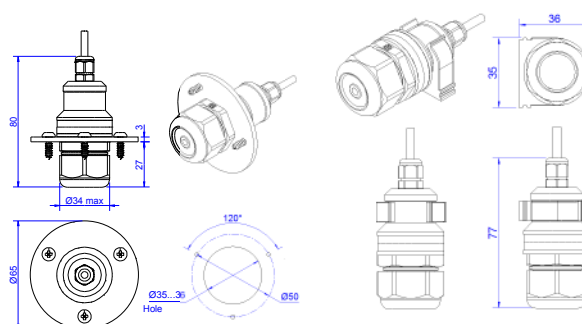


Duct mount version

Connection diagram



Remote probe



Chlorine Detector-Transmitter E2608-CI2



Features

- Wall-mount or duct-mount version
- Industrial IP65 housing
- Two relays for alarm / ventilation control
- Two analog outputs settable to 4-20 mA or 0-10 V
- RS485 Modbus RTU digital interface
- Attached or remote sensor

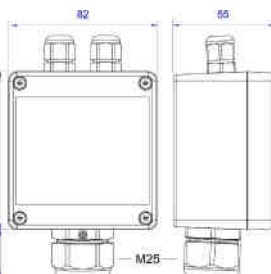
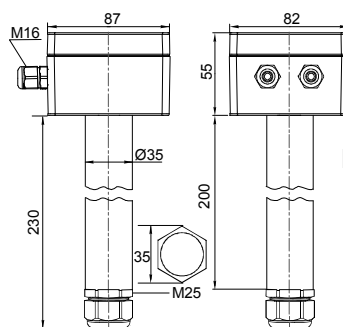
Specifications

Detected gas	Chlorine Cl ₂
Calibration	Chlorine Cl ₂
Sensing method	Electrochemical
Sampling method	Diffusion
Typical detection range	0...10 ppm
Maximum overload	100 ppm
Resolution	0.1 ppm
Signal update	Every 1 second
Response time	<60 seconds
Maintenance interval	6 months
Sensor lifetime	>2 years
Self-diagnostics	Full functionality check at start-up
Warm-up time	≤ 1 min
Power supply	11...30 VDC, 24 VAC or 90...265 VAC
Power consumption	< 2 VA
Digital interface	RS485, Modbus RTU protocol
Analog outputs	2 × 4-20 mA / 0-10 V, user settable
Output scale width	recommended: 20-100% of the range; > 10 × resolution in any case
Output relays	2 × SPST relays (closing contact), 250 VAC / 30 VDC, 5 A max
Default alarm set-points	LOW: set 0.5 ppm, release 0.4 ppm HIGH: set 1 ppm, release 0.8 ppm
Enclosure	Grey ABS plastic, wall mount, protection class IP65
Dimensions	H85 × W82 × D55 mm
Remote sensor probe	protection IP65, shielded cable default cable length 3.0 m
Operating environment	industrial indoor and outdoor locations
Operating conditions	-20...+50 °C, 15...90 %RH, pressure 0,9...1,1 atm non ATEX rated areas

NOTE The sensor may exhibit sensitivity to hydrogen sulfide

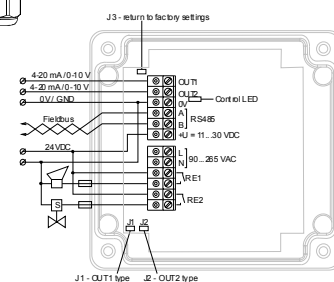
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Wall mount version

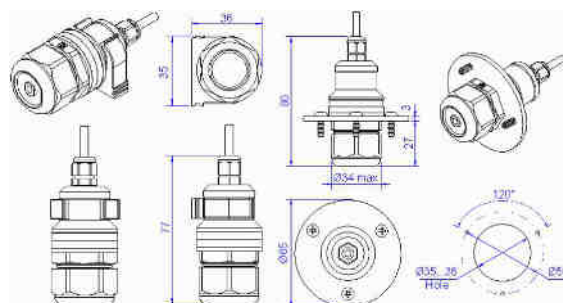


Duct mount version

Connection diagram



Remote probe



Carbon Monoxide Detector-Transmitter E2608-CO



Features

- Wall-mount or duct-mount version
- Industrial IP65 housing
- Two relays for alarm / ventilation control
- Two analog outputs settable to 4-20 mA or 0-10 V
- RS485 Modbus RTU digital interface
- Attached or remote sensor

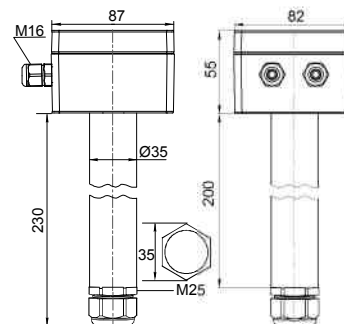
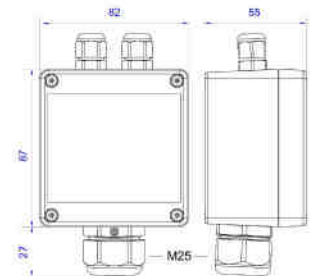
Specifications

Calibration	Carbon Monoxide CO
Sensing method	long-life electrochemical cell
Sampling method	diffusion
Detection range	0...1000 ppm CO
Maximum overload	2000 ppm
Resolution	1 ppm CO
Repeatability	< ± 5 %
Signal update	every 1 second
Response time	<30 seconds
Maintenance interval	6 months
Sensor lifetime	> 6 years
Self-diagnostics	full functionality check at start-up
Warm-up time	≤ 1 min
Power supply	11...30 VDC, 24 VAC or 90...265 VAC
Power consumption	< 2 VA
Digital interface	RS485, Modbus RTU protocol
Analog outputs	2 × 4-20 mA / 0-10 V, user settable
Output scale width	recommended: 5-100% of the range; > 10 × resolution in any case
Output relays	2 × SPST relays (closing contact), 250 VAC / 30 VDC, 5 A max
Default alarm set-points	RE1 (LOW): set 25; release 20 ppm RE2 (HIGH): set 35; release 28 ppm
Enclosure	light grey ABS plastic, wall mount, protection class IP65
Dimensions	H85 × W82 × D55 mm
Remote sensor probe	protection IP65, shielded cable default cable length 3.0 m
Operating environment	industrial indoor and outdoor locations
Operating conditions	-20...+50 °C, 15...95 %RH pressure 0,9...1,1 atm non ATEX rated areas

NOTE The sensor may exhibit sensitivity to acetylene, ethylene, hydrogen and nitric oxide

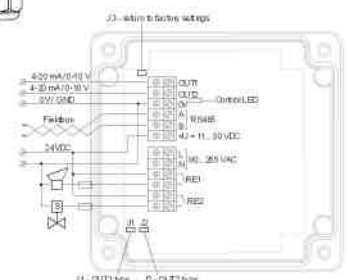
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Wall mount version

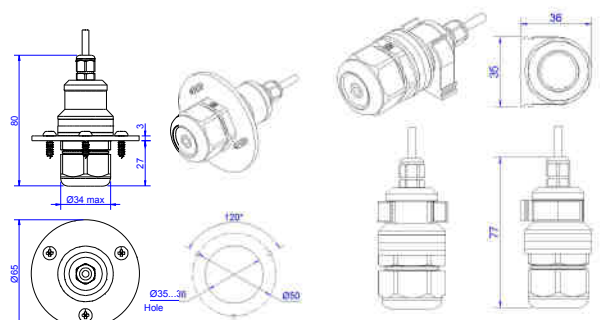


Duct mount version

Connection diagram



Remote probe



Carbon Dioxide Detector-Transmitter E2608-CO2-10K



Features

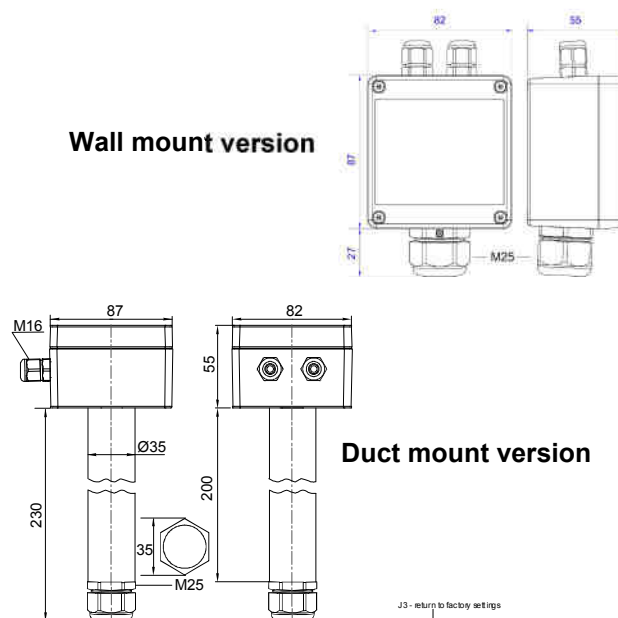
- High selectivity
- Industrial housing, attached or remote sensor
- Two relays for alarm / ventilation control
- Two analog outputs settable to 4-20 mA or 0-10 V
- RS485 Modbus RTU digital interface
- Ambient pressure compensation option

Specifications

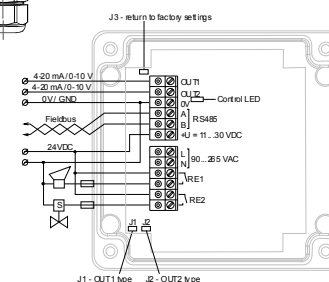
Detected gas	carbon dioxide CO ₂
Sensor type	optical (NDIR)
Sampling method	diffusion
Detection range	0...10 000 ppm
Resolution / digital unit	1 ppm
Accuracy	± (50 ppm + 3% of reading) in the range 300...5000 ppm
Signal update	every 2 seconds
Response time T90	~ 2 minutes
Maintenance interval	up to 5 years
Sensor lifetime	ca. 10 years
Self-diagnostics	full functionality check at start-up
Warm-up time	≤ 1 min
Power supply	11...30 VDC, 24 VAC or 90...265 VAC
Power consumption	< 2 VA
Digital interface	RS485, Modbus RTU protocol
Analog outputs	2 × 4-20 mA / 0-10 V, user settable
Output scale width	recommended: 20-100% of the range; > 10 × resolution in any case
Output relays	2 × SPST relays (closing contact), 250 VAC / 30 VDC, 5 A max
Alarm set-points	defined by user within 5-95% of the detection range
Enclosure	light grey ABS plastic, wall mount, protection class IP65
Dimensions	H85 × W82 × D55 mm
Remote sensor probe	protection IP65, shielded cable default cable length 3.0 m
Operating environment	industrial indoor and outdoor locations
Operating conditions	0...+50 °C, 0...85 %RH pressure 0,9...1,1 atm non ATEX areas
Pressure compensation (option)	0,5...2 bar absolute pressure

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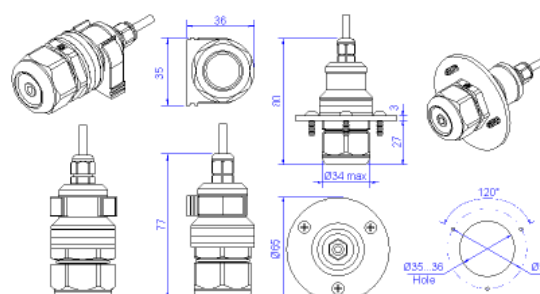
Wall mount version



Connection diagram



Remote probe



Carbon Dioxide Detector-Transmitter E2608-CO2-50K



Features

- High selectivity
- Industrial housing, attached or remote sensor
- Two relays for alarm / ventilation control
- Two analog outputs settable to 4-20 mA or 0-10 V
- RS485 Modbus RTU digital interface
- Ambient pressure compensation option

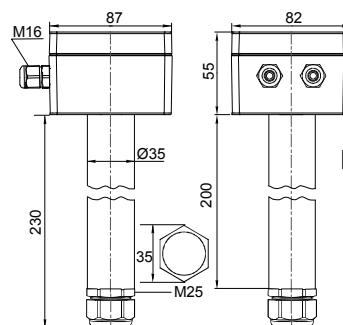
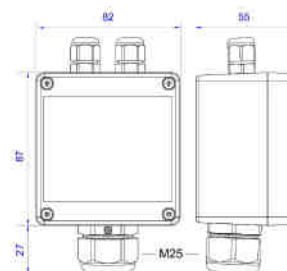
Specifications

Detected gas	carbon dioxide CO ₂
Sensor type	optical (NDIR)
Sampling method	diffusion
Detection range	0...50 000 ppm up to 100% CO ₂ on request
Resolution / digital unit	100 ppm
Accuracy	± (70 ppm + 5% of reading)
Signal update	every 1 second
Response time T90	~ 2 minutes
Maintenance interval	up to 5 years
Sensor lifetime	ca. 10 years
Self-diagnostics	full functionality check at start-up
Warm-up time	≤ 1 min
Power supply	11...30 VDC, 24 VAC or 90...265 VAC
Power consumption	< 2 VA
Digital interface	RS485, Modbus RTU protocol
Analog outputs	2 × 4-20 mA / 0-10 V, user settable
Output scale width	recommended: 20-100% of the range; > 10 × resolution in any case
Output relays	2 × SPST relays (closing contact), 250 VAC / 30 VDC, 5 A max
Alarm set-points	defined by user within 5-95% of the detection range
Enclosure	light grey ABS plastic, wall mount, protection class IP65
Dimensions	H85 × W82 × D55 mm
Remote sensor probe	protection IP65, shielded cable default cable length 3.0 m
Operating environment	industrial indoor and outdoor locations
Operating conditions	-25...+50 °C, 0...95 %RH pressure 0,9...1,1 atm non ATEXrated areas non-aggressive atmosphere

Other options

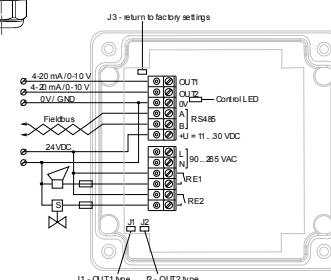
Pressure compensation	0,5...2 bar absolute pressure
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Wall mount version

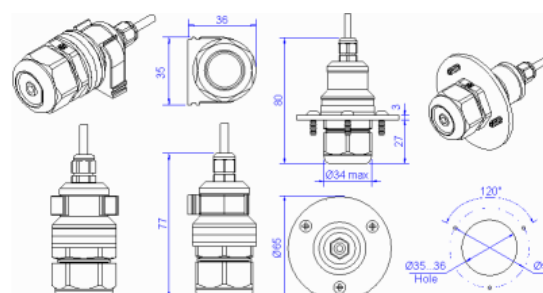


Duct mount version

Connection diagram



Remote probe



Ethylene Oxide Detector-Transmitter E2608-ETO



Features

- Wall-mount or duct-mount version
- Industrial IP65 housing
- Two relays for alarm / ventilation control
- Two analog outputs settable to 4-20 mA or 0-10 V
- RS485 Modbus RTU digital interface
- Attached or remote sensor

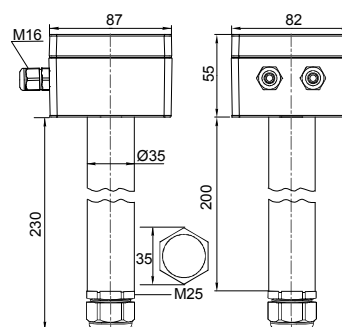
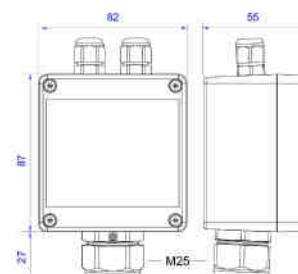
Specifications

Detected gas	Ethylene Oxide C ₂ H ₄ O	
Sensing method	electrochemical	
Sampling method	diffusion	
Typical detection range	0...20 ppm	0...100 ppm
Maximum overload	100 ppm	200 ppm
Resolution / digital unit	0.1 ppm	1 ppm
Outputs scale	0-200	0-100
Response time T90	< 120 s	<140s
Alarm setpoints	LOW: set 2; release 1.6 ppm HIGH: set 5; release 4 ppm	defined by user within 5-95% of the range
Maintenance interval	6 months	
Sensor lifetime	2 years	
Self-diagnostics	full functionality check at start-up	
Warm-up time	≤ 1 min	
Power supply	11...30 VDC, 24 VAC or 90...265 VAC	
Power consumption	< 2 VA	
Digital interface	RS485, Modbus RTU protocol	
Analog outputs	2 × 4-20 mA / 0-10 V, user settable	
Output scale width	recommended: 20-100% of the range; > 10 × resolution in any case	
Output relays	2 × SPST relays (closing contact), 250 VAC / 30 VDC, 5 A max	
Enclosure	light grey ABS plastic, wall mount, protection class IP65	
Dimensions	H85 × W82 × D55 mm	
Remote sensor probe	protection IP65, shielded cable default cable length 3.0 m	
Operating environment	industrial indoor and outdoor locations	
Operating conditions	-20...+50 °C, 15...95 %RH pressure 0,9...1,1 atm non ATEX rated areas	

NOTE The sensor may exhibit considerable sensitivity to carbon monoxide, toluene and other organic compounds

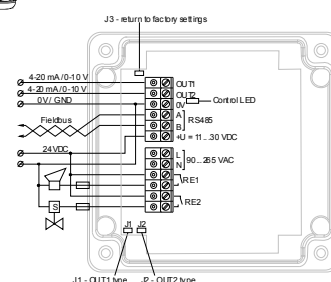
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Wall mount version

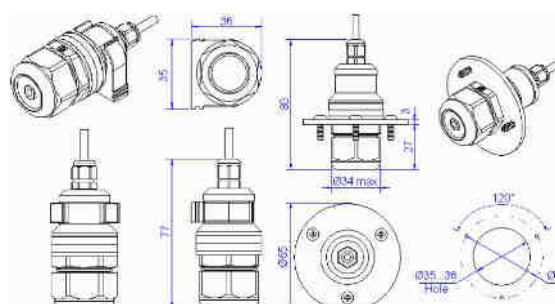


Duct mount version

Connection diagram



Remote probe



Hydrogen Sulfide Detector-Transmitter E2608-H2S


IP65
**4-20mA
0-10V**
**RS485
Modbus**

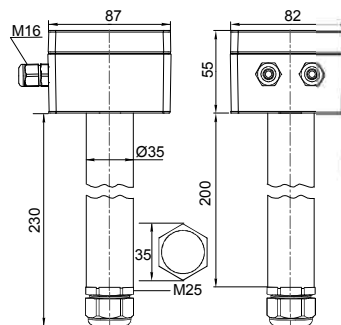
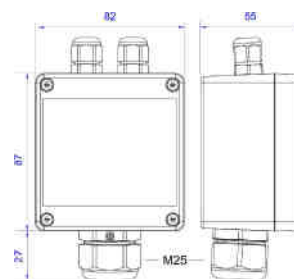

Features

- Wall-mount or duct-mount version
- Industrial IP65 housing
- Two relays for alarm / ventilation control
- Two analog outputs settable to 4-20 mA or 0-10 V
- RS485 Modbus RTU digital interface
- Attached or remote sensor

Specifications

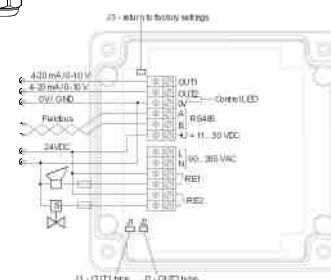
Calibration	Hydrogen Sulfide H ₂ S	
Sensing method	electrochemical cell	
Sampling method	diffusion	
Typical detection range	0...100 ppm	0...2000 ppm
Maximum overload	500 ppm	nd
Resolution	0,1 ppm	2 ppm
Response time T90	< 30 seconds	< 25 seconds
Output scale	0-1000	0-1000
Operating temperature	-30...+50 °C	-40...+50 °C
Signal update	every 1 second	
Response time	< 30 seconds	
Maintenance interval	6 months	
Sensor lifetime	> 2 years	
Self-diagnostics	full functionality check at start-up	
Warm-up time	≤ 1 min	
Power supply	11...30 VDC, 24 VAC or 90...265 VAC	
Power consumption	< 2 VA	
Digital interface	RS485, Modbus RTU protocol	
Analog outputs	2 × 4-20 mA / 0-10 V, user settable	
Output scale width	recommended: 20-100% of the range; > 10 × resolution in any case	
Output relays	2 × SPST relays (closing contact), 250 VAC / 30 VDC, 5 A max	
Default alarm set-points	for 0...100 ppm range: RE1 (LOW): set 10; release 8 ppm RE2 (HIGH): set 20; release 16 ppm for 0...2000 ppm range: defined by user within 5-95% of the detection range	
Enclosure	Light grey ABS plastic, wall mount, protection class IP65	
Dimensions	H85 × W82 × D55 mm	
Remote sensor probe	protection IP65, shielded cable default cable length 3.0 m	
Operating environment	industrial indoor and outdoor locations	
Operating conditions	15...90 %RH, pressure 0,9...1,1 atm; non ATEX rated areas	

Wall mount version

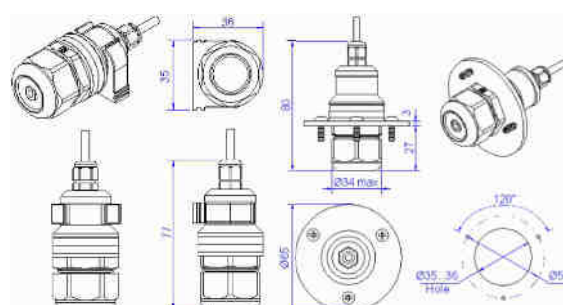


Duct mount version

Connection diagram



Remote probe



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Refrigerant Detector-Transmitter E2608-HFC



Features

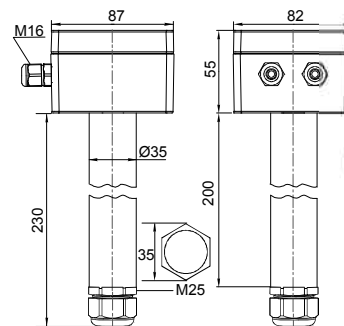
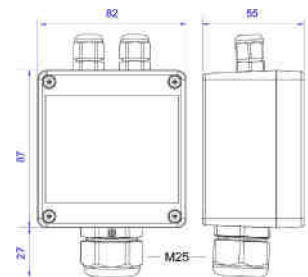
- Wall-mount or duct-mount version
- Industrial IP65 housing
- Two relays for alarm / ventilation control
- Two analog outputs settable to 4-20 mA or 0-10 V
- RS485 Modbus RTU digital interface
- Attached or remote sensor

Specifications

Detected gases	R-12, R-123, R-125, R-134a, R-143, R-22, R-404a, R-407c, R-410a etc
Sensing method	long-life metal-oxide gas sensor
Sampling method	diffusion
Detection range	0...1000 ppm halocarbon gas
Resolution / digital unit	1 ppm halocarbon gas
Signal update	every 1 second
Response time	~60 seconds
Maintenance interval	12 months
Sensor lifetime	> 5 years
Self-diagnostics	full functionality check at start-up
Warm-up time	≤ 1 min
Power supply	11...30 VDC, 24 VAC or 90...265 VAC
Power consumption	< 2 VA
Digital interface	RS485, Modbus RTU protocol
Analog outputs	2 × 4-20 mA / 0-10 V, user settable
Output scale width	recommended: 20-100% of the range; > 10 × resolution in any case
Output relays	2 × SPST relays (closing contact), 250 VAC / 30 VDC, 5 A max
Default alarm set-points	LOW: set 100 ppm, release 80 ppm HIGH: set 500 ppm release 400 ppm
Enclosure	light grey ABS plastic, wall mount, protection class IP65
Dimensions	H85 × W82 × D55 mm
Remote sensor probe	protection IP65, shielded cable default cable length 3.0 m
Operating environment	industrial indoor and outdoor locations
Operating conditions	-30...+70 °C, 15...95% RH pressure 0,9...1,1 atm; non ATEX areas; normal ambient oxygen level; no strong mechanical shock, vibrations or EMI; avoid exposure to corrosive gases or silicone containing products

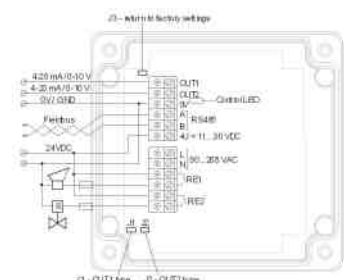
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Wall mount version

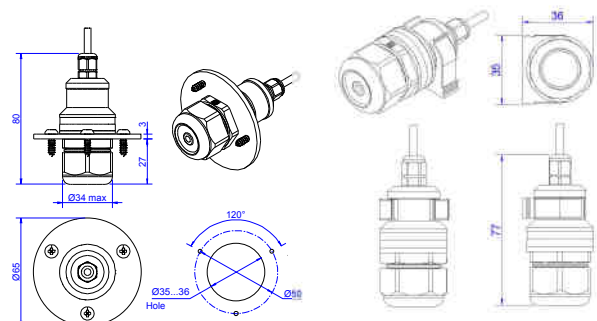


Duct mount version

Connection diagram



Remote probe



Combustible Gases Detector-Transmitter E2608-LEL


IP65
**4-20mA
0-10V**
**RS485
Modbus**

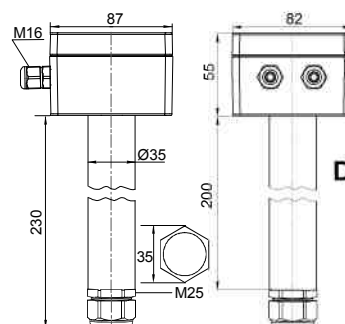
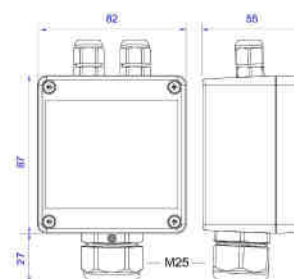

Features

- Wall-mount or duct-mount version
- Industrial IP65 housing
- Two relays for alarm / ventilation control
- Two analog outputs settable to 4-20 mA or 0-10 V
- RS485 Modbus RTU digital interface
- Attached or remote sensor

Specifications

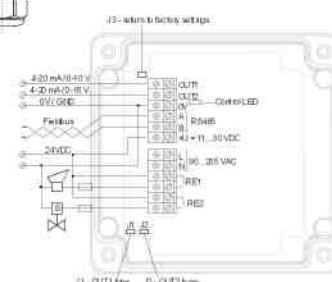
Detected gases	hydrogen, methane, acetylene, propane, butane	
Default calibration	methane CH ₄	
Sensor type	metal-oxide semiconductor (MOS) catalytic (pellistor) on demand* * not suitable for acetylene	
Sampling method	diffusion	
Sensor type	MOS	catalytic
Typical detection range	0...100% LEL	0...100% LEL
Resolution / digital unit	0.1% LEL	1% LEL
Response time T90	ca. 60 s	8 s
Sensor lifetime	> 5 years	> 2 years
Calibration interval	12 months	3...6 months
Operating conditions	-30...+70 °C	
	-20 to +60 °C	
Operating conditions	<95 %RH, pressure 0.9...1.1 atm; non ATEX rated spaces normal ambient oxygen level avoid mechanical shock and EMI; avoid exposure to corrosive gases or silicone containing products	
Signal update	every 1 second	
Self-diagnostics	full functionality check at start-up	
Warm-up time	< 3 minutes, depending on unpowered period and atmosphere	
Power supply	11...30 VDC, 24 VAC or 90...265 VAC	
Power consumption	< 2 VA	
Digital interface	RS485, Modbus RTU protocol	
Analog outputs	2 × 4-20 mA / 0-10 V, user settable	
Output scale width	recommended: 20-100% of the range; > 10 × resolution in any case	
Output relays	2 × SPST relays (closing contact), 250 VAC / 30 VDC, 5 A max	
Default alarm set-points	LOW: set 20, release 16 %LEL HIGH: set 50, release 40 %LEL	
Enclosure	light grey ABS plastic, wall mount, protection class IP65	
Dimensions	H85 × W82 × D55 mm	
Remote sensor probe	protection IP65, shielded cable default cable length 3.0 m	
Operating environment	industrial indoor and outdoor locations	

Wall mount version

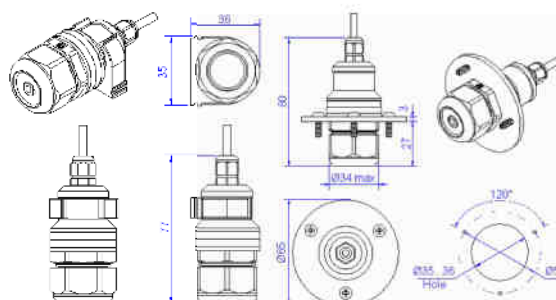


Duct mount version

Connection diagram



Remote probe



Ask for other versions or custom designed products



Ammonia Detector-Transmitter E2608-NH3-E



Features

- Wall-mount or duct-mount version
- Industrial IP65 housing
- Two relays for alarm / ventilation control
- Two analog outputs settable to 4-20 mA or 0-10 V
- RS485 Modbus RTU digital interface
- Attached or remote sensor

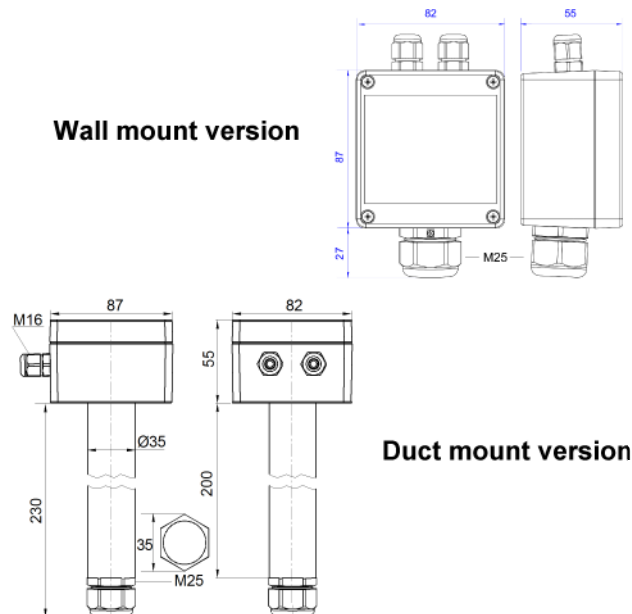
Specifications

Calibration	Ammonia NH ₃
Sensor type	Electrochemical cell
Sampling method	Diffusion
Typical detection ranges	0...100 ppm 0...300 ppm 0...1000 ppm
Maximum overload	200 ppm 500 ppm 1500 ppm
Resolution / digital unit	1 ppm 1 ppm 1 ppm
Response time T90	< 40 s < 40 s < 60 s
Signal update	Every 1 second
Maintenance interval	6 months
Sensor lifetime	> 2 years
Self-diagnostics	full functionality check at start-up
Warm-up time	≤ 1 min
Power supply	11...30 VDC, 24 VAC or 90...265 VAC
Power consumption	< 2 VA
Digital interface	RS485, Modbus RTU protocol
Analog outputs	2 × 4-20 mA / 0-10 V, user settable
Output scale width	recommended: 20-100% of the range; > 10 × resolution in any case
Output relays	2 × SPST relays (closing contact), 250 VAC / 30 VDC, 5 A max
Default alarm set-points	for 0...100 ppm range: RE1 (LOW): set 25; release 20 ppm RE2 (HIGH): set 35; release 28 ppm for other ranges: defined by user within 5-95% of the detection range
Enclosure	light grey ABS plastic, wall mount, protection class IP65
Dimensions	H85 × W82 × D55 mm
Remote sensor probe	protection IP65, shielded cable default cable length 3.0 m
Operating environment	industrial indoor and outdoor locations
Operating conditions	-40...50 °C, 15...90 %RH, pressure 0,9...1,1 atm non ATEXrated areas, non-aggressive atmosphere

NOTE The sensor may exhibit considerable sensitivity to hydrogen sulfide, nitrogen dioxide and sulfur dioxide

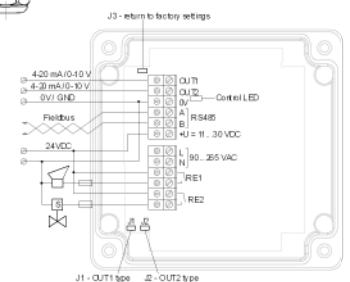
⚠ NOTE The device is intended for the control of eventual leakages (e.g. in refrigerating systems). Do not use the device in the areas with constantly high concentration of ammonia, like cattle and poultry farms.

Wall mount version

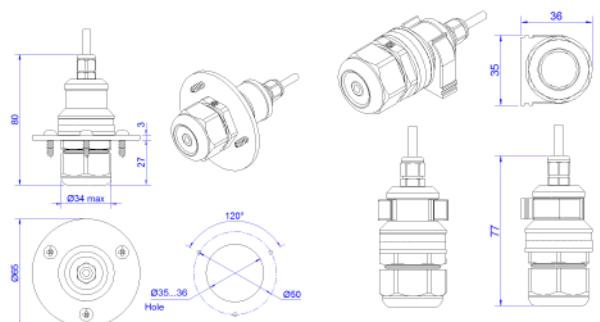


Duct mount version

Connection diagram



Remote probe



Ask for other versions or custom designed products



Ammonia Detector-Transmitter E2608-NH3-S



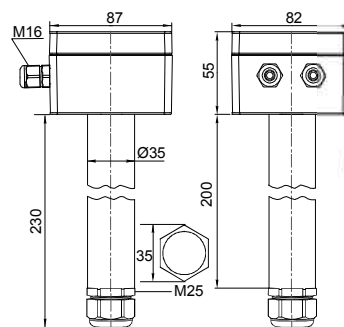
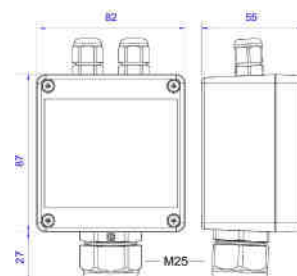
Features

- Wall-mount or duct-mount version
- Industrial IP65 housing
- Two relays for alarm / ventilation control
- Two analog outputs settable to 4-20 mA or 0-10 V
- RS485 Modbus RTU digital interface
- Attached or remote sensor

Specifications

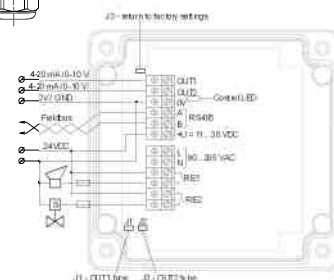
Calibration	Ammonia NH ₃
Sensor type	Metal oxide semiconductor (MOS)
Sampling method	Diffusion
Typical detection range	0...1000 ppm
Resolution / digital unit	1 ppm
Response time T90	ca. 60 s
Signal update	Every 1 second
Maintenance interval	12 months
Sensor lifetime	> 5 years
Self-diagnostics	full functionality check at start-up
Warm-up time	≤ 1 min
Power supply	11...30 VDC, 24 VAC or 90...265 VAC
Power consumption	< 2 VA
Digital interface	RS485, Modbus RTU protocol
Analog outputs	2 × 4-20 mA / 0-10 V, user settable
Output scale width	recommended: 20-100% of the range; > 10 × resolution in any case
Output relays	2 × SPST relays (closing contact), 250 VAC / 30 VDC, 5 A max
Default alarm set-points	RE1 (LOW): set 25; release 20 ppm RE2 (HIGH): set 35; release 28 ppm
Enclosure	light grey ABS plastic, wall mount, protection class IP65
Dimensions	H85 × W82 × D55 mm
Remote sensor probe	protection IP65, shielded cable default cable length 3.0 m
Operating environment	industrial indoor and outdoor locations
Operating conditions	-40...+50 °C; <95 %RH, pressure 0,9...1,1 atm; Non ATEX rated spaces Normal ambient oxygen level no strong mechanical shock, vibrations or EMI; avoid exposure to corrosive gases or silicone containing products

Wall mount version

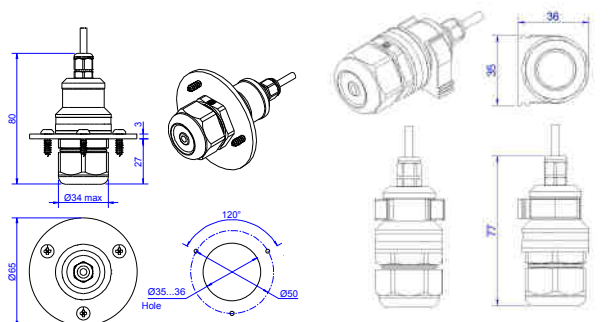


Duct mount version

Connection diagram



Remote probe



Nitric Oxide Detector-Transmitter E2608-NO


IP65
**4-20mA
0-10V**
**RS485
Modbus**


Features

- Wall-mount or duct-mount version
- Industrial IP65 housing
- Two relays for alarm / ventilation control
- Two analog outputs settable to 4-20 mA or 0-10 V
- RS485 Modbus RTU digital interface
- Attached or remote sensor

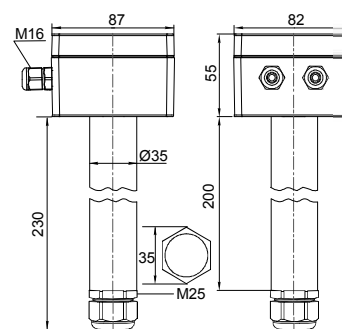
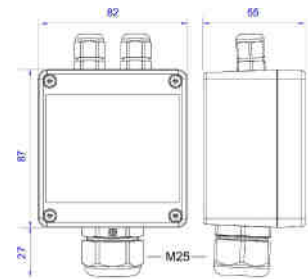
Specifications

Calibration	Nitric Oxide NO
Sensing method	electrochemical sensor
Sampling method	diffusion
Detection range	0...250 ppm NO
Resolution	1 ppm NO
Signal update	every 1 second
Response time	< 60 seconds
Maintenance interval	6 months
Sensor lifetime	> 12 months
Self-diagnostics	full functionality check at start-up
Warm-up time	≤ 1 min
Power supply	11...30 VDC, 24 VAC or 90...265 VAC
Power consumption	< 2 VA
Digital interface	RS485, Modbus RTU protocol
Analog outputs	2 × 4-20 mA / 0-10 V, user settable
Output scale width	recommended: 20-100% of the range; > 10 × resolution in any case
Output relays	2 × SPST relays (closing contact), 250 VAC / 30 VDC, 5 A max
Default alarm set-points	RE1 (LOW): set 10, release 8 ppm RE2 (HIGH): set 25, release 20 ppm
Enclosure	light grey ABS plastic, wall mount, protection class IP65
Dimensions	H85 × W82 × D55 mm
Remote sensor probe	protection IP65, shielded cable default cable length 3.0 m
Operating environment	industrial indoor and outdoor locations
Operating conditions	-30...50 °C, 15...90 %RH; pressure 0,9...1,1 atm; non ATEXrated areas; non-aggressive atmosphere

NOTE The sensor may exhibit considerable sensitivity to hydrogen sulfide and nitrogen dioxide

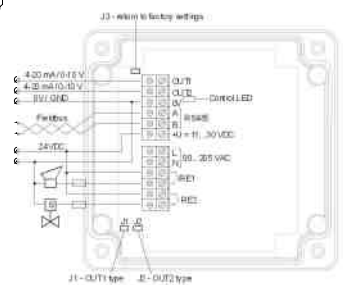
Ask for other versions or custom designed products

Wall mount version

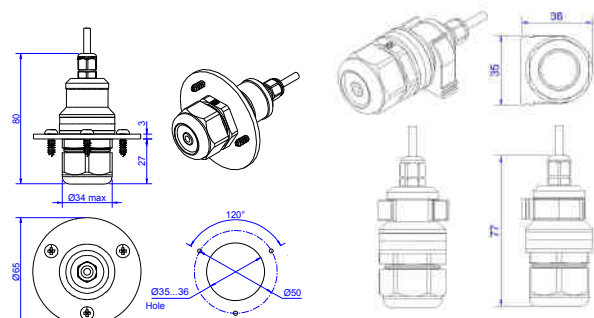


Duct mount version

Connection diagram



Remote probe



Nitrogen Dioxide Detector-Transmitter E2608-NO2



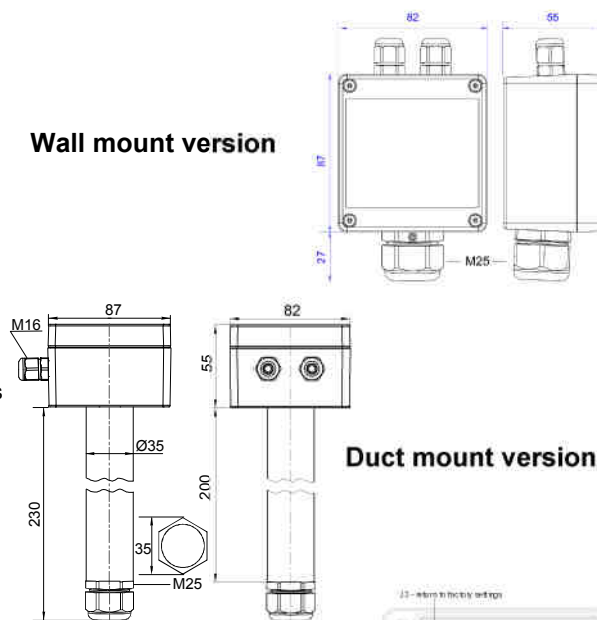
Features

- Wall-mount or duct-mount version
- Industrial IP65 housing
- Two relays for alarm / ventilation control
- Two analog outputs settable to 4-20 mA or 0-10 V
- RS485 Modbus RTU digital interface
- Attached or remote sensor

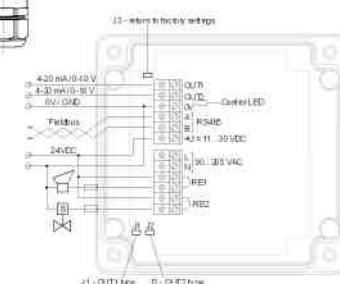
Specifications

Calibration	Nitrogen Dioxide NO ₂	
Sensing method	electrochemical sensor	
Sampling method	diffusion	
Typical detection range	0...20 ppm	0...200 ppm
Maximum overload	100 ppm	1000 ppm
Resolution / digital unit	0.1 ppm	1 ppm
Response time T90	< 60 s	<40 s
Operating conditions	-30...50 °C	-20...50 °C
	15...90 %RH; pressure 0,9...1,1 atm non ATEXrated areas, non-aggressive atmosphere NOTE The sensor may exhibit considerable sensitivity to Cl ₂ (as well as H ₂ S, SO ₂ , O ₃ for 0...200 ppm range)	
Signal update	every 1 second	
Maintenance interval	6 months	
Sensor lifetime	> 2 years	
Self-diagnostics	full functionality check at start-up	
Warm-up time	≤ 1 min	
Power supply	11...30 VDC, 24 VAC or 90...265 VAC	
Power consumption	< 2 VA	
Digital interface	RS485, Modbus RTU protocol	
Analog outputs	2 × 4-20 mA / 0-10 V, user settable	
Output scale width	recommended: 20-100% of the range; > 10 × resolution in any case	
Output relays	2 × SPST relays (closing contact), 250 VAC / 30 VDC, 5 A max	
Alarm setpoints (set / release)	RE1 (LOW): 3 / 2.4 ppm RE2 (HIGH): 6 / 4 ppm for 0...200 ppm determined by user within 5-95% of the range	
Enclosure	light grey ABS plastic, wall mount, protection class IP65	
Dimensions	H85 × W82 × D55 mm	
Remote sensor probe	protection IP65, shielded cable default cable length 3.0 m	
Operating environment	indoor and outdoor locations	

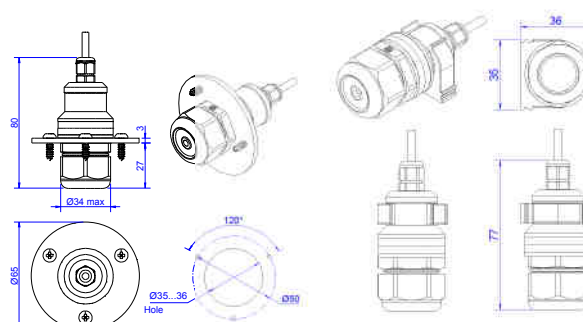
Wall mount version



Connection diagram



Remote probe





Oxygen Detector-Transmitter E2608-O2



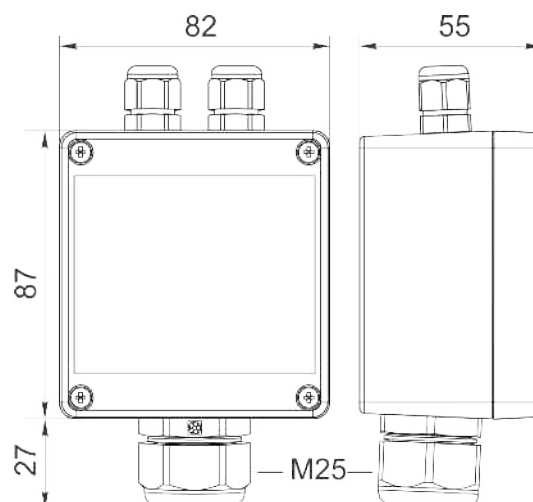
Features

- Wall-mount or duct-mount version
- Industrial IP65 housing
- Two analog outputs settable to 4-20 mA or 0-10 V
- RS485 Modbus RTU digital interface
- Two relays for alarm / ventilation control
- Attached or remote sensor

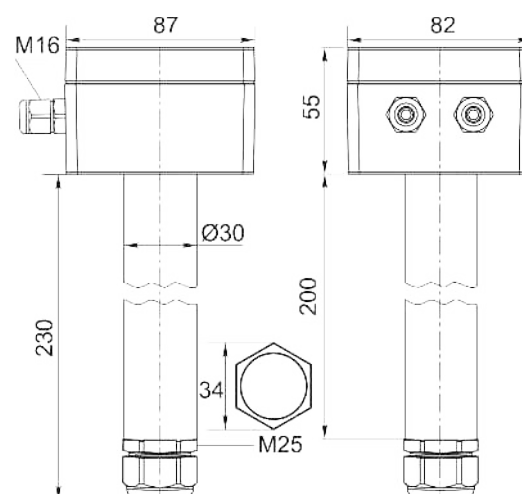
Specifications

Calibration	Oxygen O ₂
Sampling method	Diffusion
Sensor type	2-year Electrochemical 5-year Electrochemical (order code O2-5Y)
Typical detection range	0...25% vol.
Resolution	0,01% vol.
Response time T90	<10 s
Signal update	Every 1 second
Sensor lifetime	> 2 years > 5 years (for O2-5Y)
Maintenance interval	6 months
Self-diagnostics	Full functionality check at start-up
Warm-up time	≤ 1 min
Power supply	11...30 VDC (default), 24 VAC or 90...265 VAC as options
Power consumption	< 2 VA
Digital interface	RS485, Modbus RTU protocol
Analog outputs	2 × 4-20 mA / 0-10 V, user settable
Output scale width	Recommended: 20-100% of the range; > 10 × resolution in any case
Output relays	2 × SPST relays (closing contact), 250 VAC / 30 VDC, 5 A max
Default alarm setpoints	RE1 (HIGH): set 19.5%, release 20.5% RE2 (LOW): set 18%, release 19%
Enclosure	Light beige ABS plastic, wall mount, protection class IP65
Dimensions	H87 × W82 × D55 mm
Remote sensor probe	Protection IP65, shielded cable default cable length 3.0 m
Operating environment	Industrial indoor and outdoor locations
Operating conditions	15...90% RH non-condensing; 0,9...1,1 atm; Explosion-safe areas Non-aggressive atmosphere -30...+50 °C -40...+60 °C (for O2-5Y) NOTE! We offer technical solutions for extreme humidity, please ask for more information.

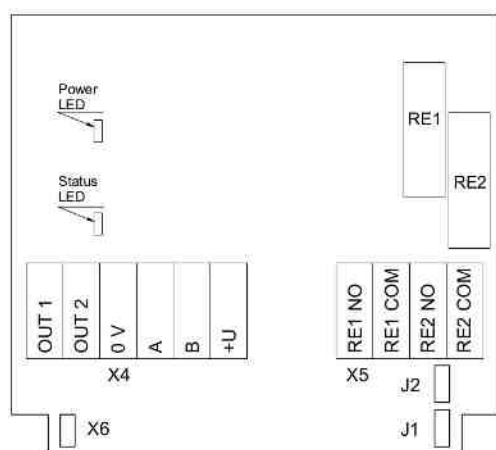
Wall mount version



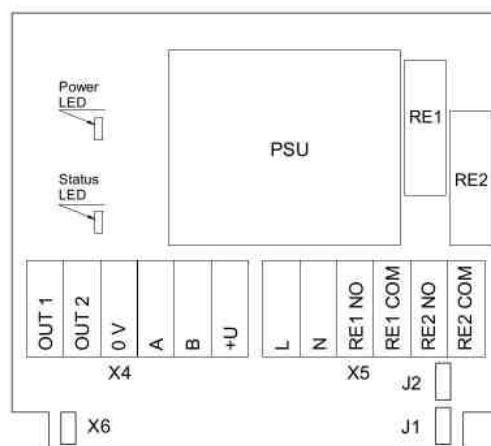
Duct mount version



Connection diagrams

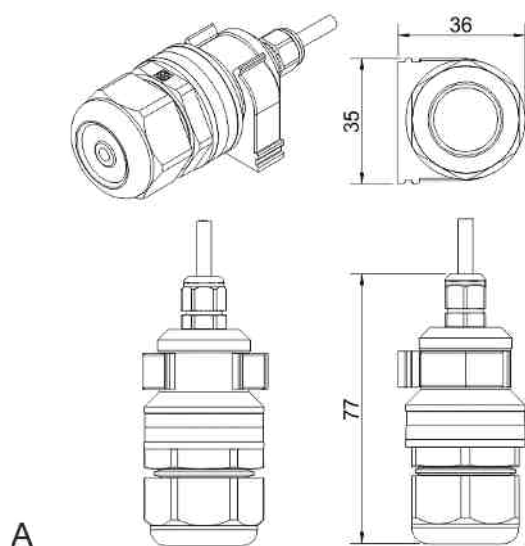


Version without PSU

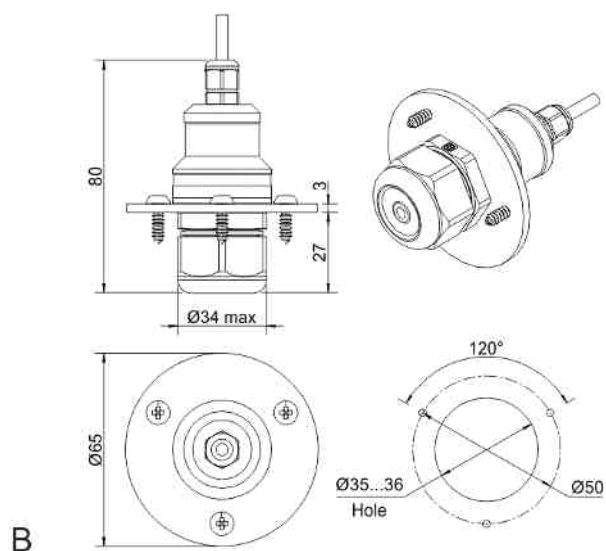


Version with PSU

Remote probe



Wall mount remote probe with fixing clamp (default version)



Remote probe with rubber flange and three self-tapping screws (on request)

Fluorescence-based Oxygen Detector-Transmitter E2608-O2-L


IP65
**4-20mA
0-10V**
**RS485
Modbus**


Features

- Maintenance free* optical sensor
- Wall-mount or duct-mount version
- Industrial housing, attached or remote sensor
- Two analog outputs settable to 4-20 mA or 0-10 V
- Two relays for alarm / ventilation control
- RS485 Modbus RTU digital interface
- High selectivity to oxygen

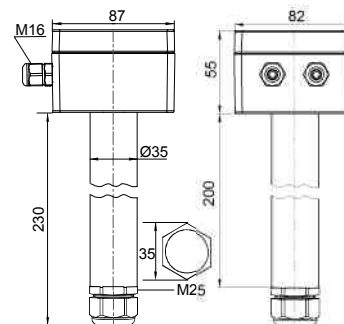
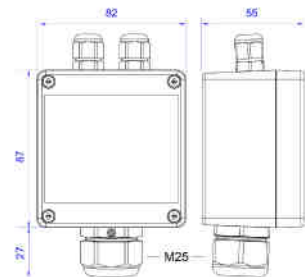
Specifications

Calibration	Oxygen O ₂
Sensing method	Optical (fluorescence based)
Sampling method	Diffusion
Detection range	0...25 %vol O ₂
Resolution	0.01 %vol O ₂
Accuracy	< 2% FS
Signal update	every 1 second
Response time	< 30 seconds
Maintenance interval	Maintenance free sensor*
Sensor lifetime	> 5 years
Self-diagnostics	full functionality check at start-up
Warm-up time	≤ 1 min
Power supply	11...30 VDC, 24 VAC or 90...265 VAC
Power consumption	< 2 VA
Digital interface	RS485, Modbus RTU protocol
Analog outputs	2 × 4-20 mA / 0-10 V, user settable
Output scale width	recommended: 20-100% of the range; > 10 × resolution in any case
Output relays	2 × SPST relays (closing contact), 250 VAC / 30 VDC, 5 A max
Default alarm set-points	RE1 (HIGH): set 19.5%, release 20.5% RE2 (LOW): set 18%, release 19%
Enclosure	Light grey ABS plastic, wall mount, protection class IP65
Dimensions	H85 × W82 × D55 mm
Remote sensor probe	protection IP65, shielded cable default cable length 3.0 m
Operating environment	Industrial indoor and outdoor locations
Operating conditions	-30...60 °C, 15...90 %RH; pressure 0,9...1,1 atm; non ATEXrated areas; non-aggressive atmosphere

*if no thermal fluctuations occur

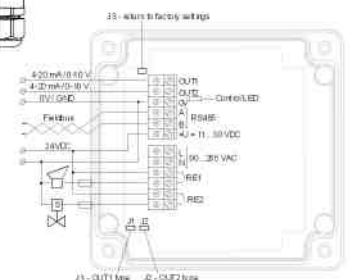
Ask for other versions or custom designed products

Wall mount version

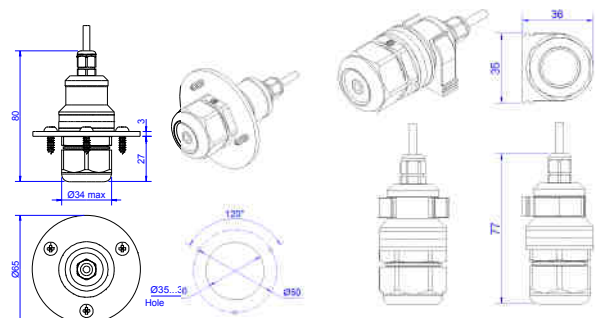


Duct mount version

Connection diagram



Remote probe



Ozone Detector-Transmitter E2608-O3



Features

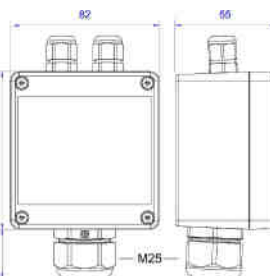
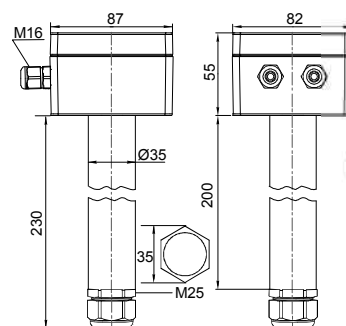
- Wall-mount or duct-mount version
- Industrial IP65 housing
- Two relays for alarm / ventilation control
- Two analog outputs settable to 4-20 mA or 0-10 V
- RS485 Modbus RTU digital interface
- Attached or remote sensor

Specifications

Detected gas	Ozone O ₃
Calibration	Ozone
Sensing method	electrochemical
Sampling method	diffusion
Detection range	0...5 ppm O ₃ (peak 50 ppm)
Digital unit	0.01 ppm O ₃
Repeatability	< 2 % of signal
Signal update	every 1 second
Response time	<60 seconds
Maintenance interval	6 months
Sensor lifetime	2 years
Self-diagnostics	full functionality check at start-up
Warm-up time	≤ 1 min
Power supply	11...30 VDC, 24 VAC or 90...265 VAC
Power consumption	< 2 VA
Digital interface	RS485, Modbus RTU protocol
Analog outputs	2 × 4-20 mA / 0-10 V, user settable
Output scale width	recommended: 20-100% of the range; > 10 × resolution in any case
Output relays	2 × SPST relays (closing contact), 250 VAC / 30 VDC, 5 A max
Default alarm set-points	RE1 (LOW): set 0.3, release 0.24 ppm RE2 (HIGH): set 1ppm, release 0.8 ppm
Enclosure	light grey ABS plastic, wall mount, protection class IP65
Dimensions	H85 × W82 × D55 mm
Remote sensor probe	protection IP65, shielded cable default cable length 3.0 m
Operating environment	industrial indoor and outdoor locations
Operating conditions	0...50 °C, 15...90 %RH; pressure 0,9...1,1 atm; non ATEXrated areas; non-aggressive atmosphere

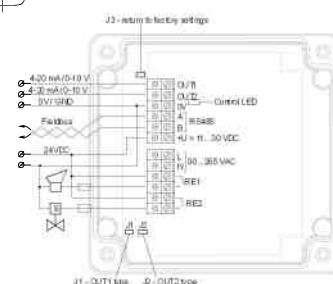
NOTE The sensor may exhibit considerable sensitivity to chlorine and nitrogen dioxide

Wall mount version

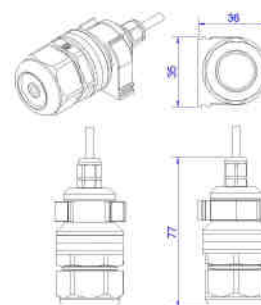
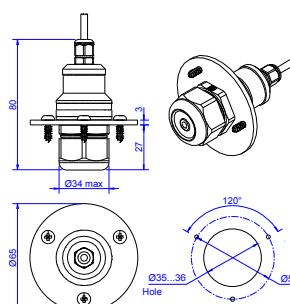


Duct mount version

Connection diagram



Remote probe



Solvent Vapours Detector-Transmitter E2608-PID



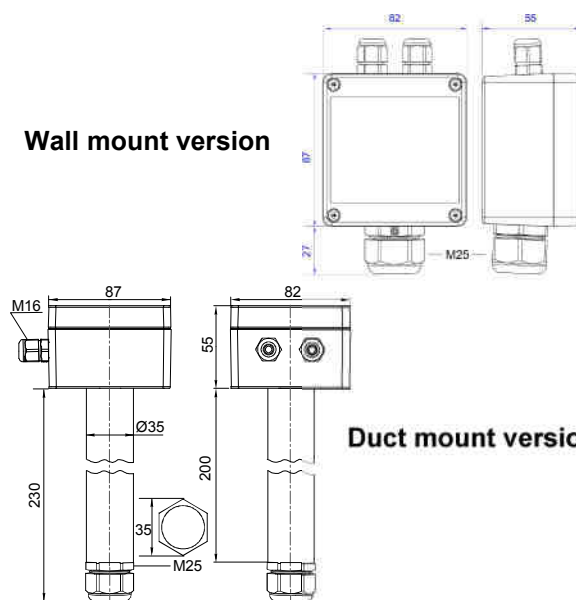
Features

- Highly sensitive Photo Ionization Detector
- Wall-mount or duct-mount version
- Industrial housing, attached or remote sensor
- Two analog outputs settable to 4-20 mA or 0-10 V
- Two relays for alarm / ventilation control
- RS485 Modbus RTU digital interface

Specifications

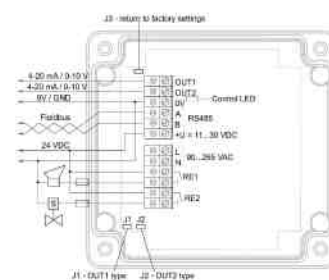
Detected gases	VOCs with ionisation potential < 10.6 eV	
Default calibration	Isobutylene	
Sensor type	Photo Ionization Detector	
Sampling method	Diffusion	
	E2608-PID-40	E2608-PID-200
Detection range	0...40 ppm (isobutylene)	0...200 ppm (isobutylene)
Minimum detection level	1 ppb	< 50 ppb
Signal update	every 1 second	
Response time	< 3 seconds	
Sensor lifetime	5 years	
Maintenance interval	Monthly or more frequently depending on operating conditions	
Self-diagnostics	Full functionality check at start-up	
Full stabilisation time	20 min	
Power supply	11...30 VDC, 24 VAC or 90...265 VAC	
Power consumption	< 2 VA	
Digital interface	RS485, Modbus RTU protocol	
Analog outputs	2 × 4-20 mA / 0-10 V, user settable	
Output scale width	recommended: 20-100% of the range; > 10 × resolution in any case	
Output relays	2 × SPST relays (closing contact), 250 VAC / 30 VDC, 5 A max	
Alarm set-points	defined by user within 5-95% of the detection range	
Enclosure	Light grey ABS plastic, wall mount, protection class IP65	
Dimensions	H85 × W82 × D55 mm	
Remote sensor probe	protection IP65, shielded cable default cable length 3.0 m	
Operating environment	industrial indoor and outdoor locations	
Operating conditions	-40...+55 °C, 0...95 %RH pressure 0,9...1,1 atm non ATEX rated areas	

Wall mount version

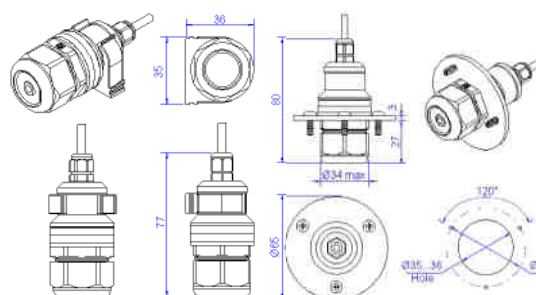


Duct mount version

Connection diagram



Remote probe



Sulfur Dioxide Detector-Transmitter E2608-SO2



Features

- Wall-mount or duct-mount version
- Industrial IP65 housing
- Two relays for alarm / ventilation control
- Two analog outputs settable to 4-20 mA or 0-10 V
- RS485 Modbus RTU digital interface
- Attached or remote sensor

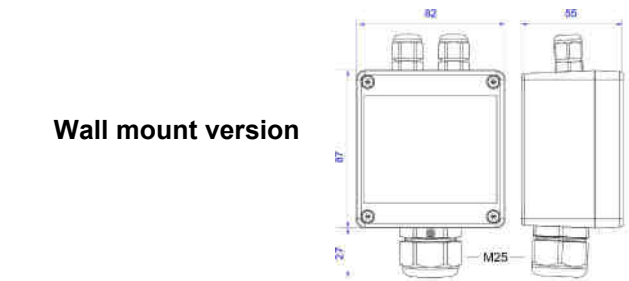
Specifications

Detected gas	Sulfur dioxide
Sensor type	electrochemical
Sampling method	diffusion
Typical detection range	0...50 ppm 0...2000 ppm
Maximum overload	75 ppm 10 000 ppm
Resolution / digital unit	0.1 ppm 1.5 ppm/1 ppm
Response time T90	<35 s
Signal update	every 1 second
Maintenance interval	6 months
Sensor lifetime	> 2 years
Self-diagnostics	full functionality check at start-up
Warm-up time	≤ 1 min
Power supply	11...30 VDC, 24 VAC or 90...265 VAC
Power consumption	< 2 VA
Digital interface	RS485, Modbus RTU protocol
Analog outputs	2 × 4-20 mA / 0-10 V, user settable
Output scale width	recommended: 20-100% of the range; > 10 × resolution in any case
Output relays	2 × SPST relays (closing contact), 250 VAC / 30 VDC, 5 A max
Alarm set-points	defined by user within 5-95% of the detection range
Enclosure	light grey ABS plastic, wall mount, protection class IP65
Dimensions	H85 × W82 × D55 mm
Remote sensor probe	protection IP65, shielded cable default cable length 3.0 m
Operating environment	industrial indoor and outdoor locations
Operating conditions	-30...50; 15...90 %RH pressure 0,9...1,1 atm non ATEXrated areas non-aggressive atmosphere

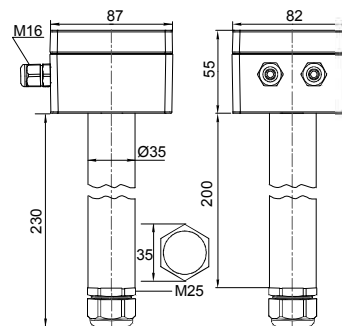
NOTE The sensor may exhibit considerable sensitivity to nitrogen dioxide, chlorine, ethylene, hydrogen sulfide

Ask for other versions or custom designed products

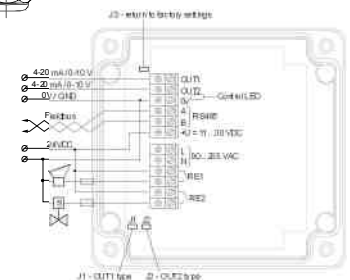
Wall mount version



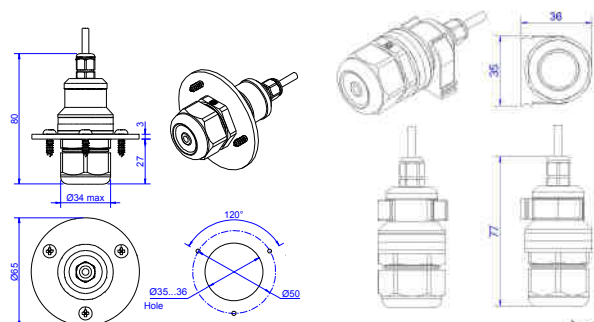
Duct mount version



Connection diagram



Remote probe



Solvent Vapours Detector-Transmitter E2608-VOC



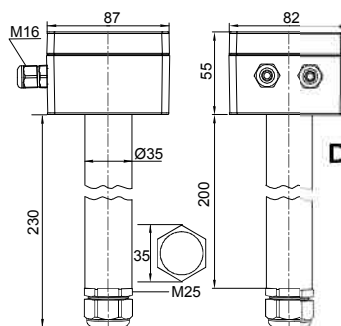
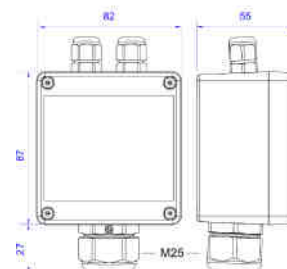
Features

- Wall-mount or duct-mount version
- Industrial IP65 housing
- Two relays for alarm / ventilation control
- Two analog outputs settable to 4-20 mA or 0-10 V
- RS485 Modbus RTU digital interface
- Attached or remote sensor

Specifications

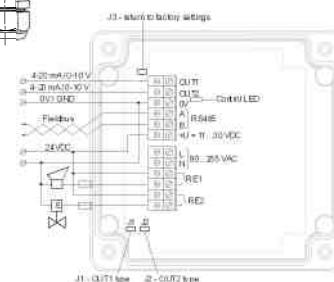
Detected gases	Toluene, Xylene, Ethanol etc
Default calibration	Toluene
Sensor type	Metal-oxide semiconductor
Sampling method	Diffusion
Detection ranges	0...100 to 0...1000 ppm (toxic ranges) 0...100% LEL (flammable range)
Resolution	1 ppm / 0.1% LEL
Signal update	every 1 second
Response time	< 120 seconds
Sensor lifetime	> 5 years
Maintenance interval	12 months
Self-diagnostics	Full functionality check at start-up
Warm-up time	≤ 1 min
Power supply	11...30 VDC, 24 VAC or 90...265 VAC
Power consumption	< 2 VA
Digital interface	RS485, Modbus RTU protocol
Analog outputs	2 × 4-20 mA / 0-10 V, user settable
Output scale width	recommended: 20-100% of the range; > 10 × resolution in any case
Output relays	2 × SPST relays (closing contact), 250 VAC / 30 VDC, 5 A max
Default alarm set-points	LOW: set 100 , release 80 ppm HIGH: set 300, release 240 ppm (for the range 0...500 ppm) LOW: set 20 , release 16 %LEL HIGH: set 50, release 40 %LEL
Enclosure	Light grey ABS plastic, wall mount, protection class IP65
Dimensions	H85 × W82 × D55 mm
Remote sensor probe	protection IP65, shielded cable default cable length 3.0 m
Operating conditions	-30...+70 °C, <95 %RH pressure 0.9...1.1 atm; non ATEX rated spaces; normal ambient oxygen level avoid mechanical shock or EMI; avoid exposure to corrosive gases or silicon containing products

Wall mount version



Duct mount version

Connection diagram



Remote probe

