

GMS800

Modular Gas Analyzers

Tailor-made gas analysis solutions for process and emission monitoring

- Approved according to EN 15267 and EN 14181
- Installations in Non-Ex-areas and Ex-areas (Zone 1 and 2 according to ATEX)
- Minimum service and maintenance work as well as easy reconditioning of existing installations
- Adjustment without test gases via optional adjustment unit
- Minimal influence of ambient temperature through thermostatic controlled modules
- Reliable measuring results by proven measurement technology
- Easy maintenance and repair due to replacement of complete assemblies or modules



Modular analyzer system – flexible configuration, options tailored for almost any application



Emission monitoring according to EN 15267

- Emission measurements of very low concentrations, e.g. in power plants, cement plants or waste incineration plants and in the pulp and paper industry
- With the analysis module DEFOR, the specialist for gas turbines due to measurement of very low SO₂, NO and NO₂ concentrations
- Monitoring of NO_x in denitrification plants by direct measurement of NO and NO₂ as well as compiling to NO_x in the analyzer
- Efficient measurement in denitrification plants
- QAL1 certificate available for plants requiring approval

Process gas measurements for more than 60 components

- Efficient process gas analysis in applications of the chemical and petrochemical industry – also in ex areas
- High H₂S contents in reactive or sour gases
- Reliable CO monitoring for explosion protection in coal mills and coal bunkers
- Furnace gas measurement of blast furnaces or coke ovens
- Quality audits in air separation plants and purity measurement of gases (e.g. 5 ppm CO concentration in H₂ in hydrogen production)

4 types of enclosures for easy integration at the installation location

Type GMS810:

19" rack housing with integrated control unit (BCU), 4 rack units, IP 40



Type GMS820P:

Flame-proof enclosure, IP 65, for use in explosion zone 1



Type GMS840:

Wall enclosure, IP 65 for use in rough industrial environment, optionally usable in explosion zone 2



Type GMS811:

19" rack housing with 4 rack units, IP 40



6 Analyzer modules for more than 60 gases

DEFOR

Modern UV gas analyzer for simultaneous measurement of up to 3 gas components. Specialist for extremely selective NO measurement with small measuring ranges and an all-rounder for many other UV-active gases, e.g. SO₂, NO₂, NO, CS₂ and COS. As an option calibration cells are available.

UNOR

Highly selective NDIR analyzer for continuous measurement of almost any gas component which absorbs in the infra-red spectral range. Especially insensitive to building vibrations due to the variably adjustable chopper frequency. As an option calibration cells are available.

MULTOR

Multicomponent NDIR analyzer for continuous measurement of up to 3 IR-absorbing gases and H₂O for internal interference sensitivity correction. As an option calibration cells are available.

THERMOR

Precise heat conductivity analyzer for the determination of concentrations in binary or quasi-binary gas mixtures, e.g. H₂, He, CO₂ and Ar.

OXOR-P

Precise oxygen analyzer which operates according to the paramagnetic measuring principle. Also available as special model as especially solvent-resistant or corrosion-resistant version

OXOR-E

Determination of oxygen contents using an electrochemical cell.

GMS800

Tailor-made gas analysis for process and emission monitoring



Product description

The GMS800 is a product family of extractive analyzers which can measure more than 60 different gas compounds. The GMS800 is characterized by its modular design: 6 analyzing modules, one gas module, I/O modules and an operating unit. Standardized 19" racks can be used for economic system integration. Wall mounting

enclosures with an ATEX approval for hazardous areas can be used in rough industrial environments. Equipped with modern software, the GMS800 comes with the required interfaces for remote control via networks through to the connection to a process control system.

At a glance

- 6 different analyzer modules: DEFOR (NDUV, UVRAS), MULTOR (NDIR), OXOR-E (electrochemical O₂), OXOR-P (paramagnetic O₂), THERMOR (TC), and UNOR (NDIR)
- 4 different types of enclosures
- Gas module with sample gas pump and/or control sensors
- New enclosure type for easy and quick integration in analyzer systems
- Remote diagnosis via Ethernet with SOPAS ET software

Your benefits

- Approved according to EN 15267 and EN 14181
- Installations in Non-Ex-areas and Ex-areas (Zone 1 and 2 according to ATEX) possible
- Minimum service and maintenance work as well as easy reconditioning of existing installations due to modular design
- Adjustment without test gases via optional adjustment unit
- Minimal influence of ambient temperature through thermostatic controlled modules
- Reliable measuring results by proven measurement technology
- Easy maintenance and repair due to replacement of complete assemblies or modules

Fields of application

- Emission monitoring according to EN 15267 and process gas measurements, including in potentially explosive atmospheres
- Emission monitoring of very low concentrations
- Measurement of smallest concentrations of NO, NO₂, and SO₂
- NO_x monitoring by direct measurement of NO and NO₂
- Measurement of sulfur compounds in process gases
- CO monitoring for explosion protection
- Measurement of smallest concentrations in hydrogen or hydrocarbons



More Information online

For more information, enter the link or scan the QR code to get direct access to technical data, operating instructions, software, application examples, and much more.

www.endress.com/gms800



Technical data

The exact device specifications and performance data of the product may deviate from the information provided here, and depend on the application in which the product is being used and the relevant customer specifications.

GMS800 general

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|-------------------------------|--|
| Measured values | CH ₄ , CO, CO ₂ , H ₂ , H ₂ O, He, N ₂ O, NH ₃ , NO, NO ₂ , O ₂ , SO ₂ Hydrocarbons (e.g. C ₂ H ₂), halogenated hydrocarbons (e.g. CH ₂ Cl ₂) and other gases upon request |
| Performance-tested measurands | CH ₄ , CO, CO ₂ , NO, NO ₂ , O ₂ , SO ₂ |
| Gas flow rate | 30 l/h ... 60 l/h (7,925 gal/h ... 15,85 gal/h) |
| Sample gas temperature | |
| Analyzer inlet: | 0 °C ... +45 °C (32 °F ... +113 °F) |
| Process pressure | |
| Hosed gas lines: | –200 hPa ... 300 hPa |
| Tubed gas lines: | –200 hPa ... 1,000 hPa |
| Process gas humidity | Non-condensing |
| Dust load | Free of dust and aerosols |
| Ambient temperature | +5 °C ... +45 °C (41 °F ... 113 °F) |
| Storage temperature | –20 °C ... +70 °C (–4 °F ... 158 °F) |
| Ambient pressure | 700 hPa ... 1,200 hPa |
| Geographical altitude | + 2,500 m (+8,200 ft) (above mean sea level) |
| Ambient humidity | 20 % ... 90 %, relative humidity; non-condensing |
| Electrical safety | CE |

GMS810 design

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|---------------------------|--|
| Description | 19" rack enclosure with 4 rack units, for integration in cabinets |
| Electrical safety | CE |
| Enclosure rating | IP40 |
| Dimensions (W x H x D) | 483 mm x 178 mm x 388 mm (19.02 in x 7.01 in x 15.28 in) (for details see dimensional drawings) |
| Weight | 9 kg ... 20 kg (19.8 lbs ... 44.0 lbs), depending on configuration |
| Power supply | |
| Voltage | 93 V AC ... 132 V AC 186 V AC ... 264 V AC 210 V AC ... 370 V AC |
| Frequency | 47 ... 63 Hz |
| Power consumption | ≤ 300 VA |
| Sample gas connections | PVDF bulkhead fitting: for hose 6 x 1 mm |
| Auxiliary gas connections | For purge gas or flowing reference gas: option |
| Options | Gas connections: Swagelok 6 mm or Swagelok 1/4" |

GMS811 design

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|---------------------------|---|
| Description | 19" rack enclosure with 4 rack units, for usage with separate control unit (BCU), for integration in cabinets |
| Electrical safety | CE |
| Enclosure rating | IP40 |
| Dimensions (W x H x D) | 483 mm x 178 mm x 388 mm (19.02 in x 7.01 in x 15.28 in) (for details see dimensional drawings) |
| Weight | 9 kg ... 20 kg (19.8 lbs ... 44.0 lbs), depending on configuration |
| Power supply | |
| Voltage | 93 V AC ... 132 V AC 186 V AC ... 264 V AC 210 V AC ... 370 V AC |
| Frequency | 47 ... 63 Hz |
| Power consumption | ≤ 300 VA |
| Sample gas connections | PVDF bulkhead fitting: for hose 6 x 1 mm |
| Auxiliary gas connections | For purge gas or flowing reference gas: option |
| Options | Gas connections: Swagelok 6 mm or Swagelok 1/4" |

GMS820P design

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|---------------------------|---|
| Description | Flame-proof enclosure for use in Ex-zone 1 areas |
| Ex-approvals | |
| IECEX | Ex db eb [ia] IIC T6 |
| ATEX | II 2G Ex db eb [ia] IIC T6 Gb II 2G Ex db eb IIC T6 Gb |
| Electrical safety | CE |
| Enclosure rating | IP65 |
| Dimensions (W x H x D) | 790 mm x 590 mm x 353 mm (31.10 in x 23.23 in x 13.90 in) (for details see dimensional drawings) |
| Weight | 140 kg ... 150 kg (308.7 lbs ... 330.7 lbs), depending on configuration |
| Power supply | |
| Voltage | 93 V AC ... 132 V AC 186 V AC ... 264 V AC 210 V AC ... 370 V AC |
| Frequency | 47 ... 63 Hz |
| Power consumption | ≤ 300 VA |
| Sample gas connections | Inside thread G1/4" |
| Auxiliary gas connections | For purge gas or flowing reference gas: option |
| Options | Gas connections: Swagelok 6 mm or Swagelok 1/4" |

GMS840 design

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|---------------------|--|
| Description | Closed sheet steel housing for wall mounting for use indoors |
| Ambient temperature | +5 °C ... +45 °C (41 °F ... 113 °F) |

| | | |
|------------------------|---------------------|---|
| Storage temperature | | -10 °C ... +70 °C (14 °F ... 158 °F) |
| Ambient humidity | | 10 % ... 95 %, non-condensing |
| Ex-approvals | | |
| | IECEX | GMS841: Ex nA nC IIC T4 Gc GMS841: Ex nA nC [ia Ga] IIC T4 Gc |
| | ATEX | GMS841: II 3G Ex nA nC IIC T4 Gc GMS841: II 3G Ex nA nC [ia Ga] IIC T4 Gc |
| | NEC/CEC (US/CA) | GMS842: Class I, Division 2, Groups A, B, C and D; T4 GMS842: Ex nA nC IIC T4 Gc GMS842: Ex nA nC [ia Ga] IIC T4 Gc GMS842: Class I, Zone 2 AEx nA nC IIC T4 Gc GMS842: Class I, Zone 2 AEx nA nC [ia Ga] IIC T4 Gc |
| Electrical safety | | CE |
| Enclosure rating | | IP66 / NEMA 4x |
| Dimensions (W x H x D) | | 522 mm x 475 mm x 478 mm (20.55 in x 18.70 in x 18.82 in) (for details see dimensional drawings) |
| Weight | | 30 kg (66 lbs), depending on configuration |
| Power supply | | |
| | Voltage | 85 V AC ... 264 V AC |
| | Frequency | 47 ... 63 Hz |
| | Current consumption | ≤ 10 A |
| | Power consumption | ≤ 300 VA, depending on configuration |
| Sample gas connections | | Inside thread G1/4": for screw-in fittings |
| | | Swagelok 6 mm: stainless steel, for metal tube |
| | | Swagelok 1/4": stainless steel, for metal tube |
| | | PVDF compression fitting: for hose 6 x 1 mm |

DEFOR analyzer module

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|------------------------|---------------------|---|
| Description | | UV gas analyzer for simultaneous measurement of up to 3 gas components |
| Measurement principles | | NDUV spectroscopy, UVRA spectroscopy |
| Measuring ranges | | |
| | Cl ₂ | 0 ... 125 ppm / 0 ... 100 Vol.-% |
| | COS | 0 ... 250 ppm / 0 ... 100 Vol.-% |
| | CS ₂ | 0 ... 50 ppm / 0 ... 30 Vol.-% |
| | H ₂ S | 0 ... 25 ppm / 0 ... 100 Vol.-% |
| | NH ₃ | 0 ... 50 ppm / 0 ... 100 Vol.-% |
| | NO | 0 ... 10 ppm / 0 ... 100 Vol.-% |
| | NO ₂ | 0 ... 50 ppm / 0 ... 100 Vol.-% |
| | NO ₂ (*) | 0 ... 10 ppm / 0 ... 100 Vol.-% |
| | SO ₂ | 0 ... 25 ppm / 0 ... 100 Vol.-% |
| | SO ₂ (*) | 0 ... 10 ppm / 0 ... 100 Vol.-% |
| | | (*) NO ₂ , SO ₂ : Smallest measuring range with daily adjustment of zero point and operation in an air-conditioned environment with temp. stability of ± 2 °C |

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| Certified measuring ranges | |
| NO | 0 ... 50 mg/m ³ / 0 ... 1,000 mg/m ³ / 0 ... 2,000 mg/m ³ |
| NO ₂ | 0 ... 50 mg/m ³ / 0 ... 500 mg/m ³ |
| SO ₂ | 0 ... 75 mg/m ³ / 0 ... 287 mg/m ³ / 0 ... 2,000 mg/m ³ |
| Response time (t ₉₀) | 4 s, typical at 60 l/h, depending on cell length and gas flow |
| Sensitivity drift | ≤ 1 %: of measuring range full scale per week |
| Zero point drift | ≤ 1 %: of measuring range full scale per week |
| Measuring ranges smaller than 2 x smallest measuring range | ≤ 2 %: of measuring range full scale per week |
| NO, NO ₂ , SO ₂ | ≤ 1 %: of smallest measuring range per day |
| Conformities | Approved for plants requiring approval 2001/80/EC (13. BlmSchV) 2000/76/EC (17. BlmSchV) 27. BlmSchV TA-Luft (Prevention of Air Pollution) EN 15267 EN 14181 MCERTS |
| Corrective functions | Manual or automatic adjustment with test gases or adjustment cell |
| Test functions | Self test and fault diagnosis |

MULTOR analyzer module

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| Description | Multi-component NDIR analyzer for continuous measurement of up to 3 IR-absorbing gases and H ₂ O for internal interference sensitivity correction |
| Measurement principles | NDIR spectroscopy |
| Measuring ranges | |
| CH ₄ | 0 ... 400 ppm / 0 ... 100 Vol.-% |
| CO | 0 ... 160 ppm / 0 ... 100 Vol.-% |
| CO ₂ | 0 ... 100 ppm / 0 ... 100 Vol.-% |
| NO | 0 ... 190 ppm / 0 ... 100 Vol.-% |
| SO ₂ | 0 ... 90 ppm / 0 ... 100 Vol.-% |
| Certified measuring ranges | |
| CH ₄ | 0 ... 286 mg/m ³ / 0 ... 500 mg/m ³ |
| CO | 0 ... 200 mg/m ³ / 0 ... 2,000 mg/m ³ |
| CO ₂ | 0 ... 25 Vol.-% |
| NO | 0 ... 250 mg/m ³ / 0 ... 2,500 mg/m ³ |
| SO ₂ | 0 ... 250 mg/m ³ / 0 ... 2,000 mg/m ³ |
| Response time (t ₉₀) | ≤ 25 s, at 60 l/h, depending on cuvette length, gas flow and number of measuring components |
| Sensitivity drift | ≤ 1 %: of measuring range full scale per week |
| Zero point drift | ≤ 1 %: of smallest measuring range per week |
| Measuring ranges smaller than 2 x smallest measuring range | ≤ 2 %: of smallest measuring range per week |

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| Conformities | Approved for plants requiring approval 2001/80/EC (13. BImSchV) 2000/76/EC (17. BImSchV) 27. BImSchV TA-Luft (Prevention of Air Pollution) EN 15267 EN 14181 MCERTS |
| Corrective functions | Manual or automatic adjustment with test gases or adjustment cell |
| Test functions | Self test and fault diagnosis |

OXOR-E analyzer module

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|----------------------------------|--|
| Description | Determination of oxygen content using an electrochemical cell |
| Measurement principles | Electrochemical cell |
| Measuring ranges | |
| | O ₂ 0 ... 10 Vol.-% / 0 ... 25 Vol.-% |
| Certified measuring ranges | |
| | O ₂ 0 ... 25 Vol.-% |
| Response time (t ₉₀) | 20 s, typical at 60 l/h, depending on gas flow |
| Sensitivity drift | ≤ 2 %: of measuring range full scale per week |
| Zero point drift | ≤ 2 %: of smallest measuring range per month |
| Process pressure | |
| Analyzer inlet: | -200 hPa ... 300 hPa, relative |
| Conformities | Approved for plants requiring approval 2001/80/EC (13. BImSchV) 2000/76/EC (17. BImSchV) 27. BImSchV TA-Luft (Prevention of Air Pollution) EN 15267 EN 14181 MCERTS |
| Corrective functions | Manual or automated adjustment with test gases |
| Test functions | Self test and fault diagnosis |

OXOR-P analyzer module

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|----------------------------|---|
| Description | Accurate oxygen analyzer which operates according to the paramagnetic measurement principle |
| Measurement principles | Paramagnetic dumbbell principle |
| Measuring ranges | |
| | O ₂ 0 ... 3 Vol.-% / 0 ... 100 Vol.-% |
| | Optional: smallest measuring range 0 ... 1 vol% |
| Certified measuring ranges | |
| | O ₂ 0 ... 25 Vol.-% |

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| Response time (t_{90}) | ≤ 4 s, at a gas flow of 60 l/h |
| Sensitivity drift | ≤ 1 %: of measuring range full scale per week |
| Zero point drift | ≤ 1 %: of smallest measuring range per week |
| Measuring ranges smaller 5 vol% | ≤ 0.05 Vol.-%: per week |
| Conformities | Approved for plants requiring approval 2001/80/EC (13. BImSchV) 2000/76/EC (17. BImSchV) 27. BImSchV TA-Luft (Prevention of Air Pollution) EN 15267 EN 14181 MCERTS |
| Corrective functions | Manual or automated adjustment with test gases |
| Test functions | Self test and fault diagnosis |
| Remark | Special versions with highly solvent-resistant or highly corrosion-resistant measuring cells available |

THERMOR analyzer module

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|--|---|
| Description | Heat conductivity analyzer for the determination of concentrations in binary or quasi-binary gas mixtures |
| Measurement principles | Thermal conductivity measurement |
| Measuring ranges | |
| Ar in N ₂ | 0 ... 10 Vol.-% / 0 ... 100 Vol.-% |
| Ar in O ₂ | 0 ... 10 Vol.-% / 0 ... 100 Vol.-% |
| CH ₄ in biogas | 0 ... 60 Vol.-% / 0 ... 100 Vol.-% |
| CO ₂ in air | 0 ... 10 Vol.-% / 0 ... 100 Vol.-% |
| H ₂ in Ar | 0 ... 1 Vol.-% / 0 ... 100 Vol.-% |
| H ₂ in CH ₄ | 0 ... 1 Vol.-% / 0 ... 100 Vol.-% |
| H ₂ in CO ₂ | 0 ... 1 Vol.-% / 0 ... 100 Vol.-% |
| H ₂ in blast furnace gas | 0 ... 1 Vol.-% / 0 ... 100 Vol.-% |
| H ₂ in N ₂ | 0 ... 1 Vol.-% / 0 ... 100 Vol.-% |
| He in N ₂ | 0 ... 2 Vol.-% / 0 ... 100 Vol.-% |
| NH ₃ in CO ₂ | 0 ... 15 Vol.-% / 0 ... 100 Vol.-% |
| NH ₃ in air | 0 ... 15 Vol.-% / 0 ... 100 Vol.-% |
| Response time (t_{90}) | ≤ 20 s, at a gas flow of 60 l/h |
| Sensitivity drift | ≤ 1 %: of measuring range full scale per week |
| Zero point drift | ≤ 1 %: of smallest measuring range per week |
| Measuring ranges smaller than 2 x smallest measuring range | ≤ 2 %: of smallest measuring range per week |
| Corrective functions | Manual or automated adjustment with test gases |
| Test functions | Self test and fault diagnosis |

UNOR analyzer module

| | |
|---|--|
| Description | Highly selective NDIR analyzer for continuous measurement of almost any gas component which absorbs in the infra-red spectral range |
| Measurement principles | NDIR spectroscopy |
| Measuring ranges | |
| C ₂ H ₂ | 0 ... 300 ppm / 0 ... 100 Vol.-% |
| C ₂ H ₂ F ₄ | 0 ... 100 ppm / 0 ... 100 Vol.-% |
| C ₂ H ₄ | 0 ... 300 ppm / 0 ... 100 Vol.-% |
| C ₃ H ₆ | 0 ... 300 ppm / 0 ... 100 Vol.-% |
| C ₃ H ₈ | 0 ... 100 ppm / 0 ... 100 Vol.-% |
| C ₄ H ₆ | 0 ... 5,000 ppm / 0 ... 20 Vol.-% |
| CH ₄ | 0 ... 70 ppm / 0 ... 100 Vol.-% |
| CH ₃ OH | 0 ... 150 ppm / 0 ... 10 Vol.-% |
| CO | 0 ... 20 ppm / 0 ... 100 Vol.-% |
| CO+CO ₂ | 0 ... 50 ppm / 0 ... 100 Vol.-% |
| CO ₂ | 0 ... 10 ppm / 0 ... 100 Vol.-% |
| COCl ₂ | 0 ... 200 ppm / 0 ... 10 Vol.-% |
| N ₂ O | 0 ... 25 ppm / 0 ... 100 Vol.-% |
| NO | 0 ... 75 ppm / 0 ... 100 Vol.-% |
| NH ₃ | 0 ... 300 ppm / 0 ... 100 Vol.-% |
| SF ₆ | 0 ... 50 ppm / 0 ... 100 Vol.-% |
| SO ₂ | 0 ... 26 ppm / 0 ... 100 Vol.-% |
| | More than 60 measuring components available |
| Certified measuring ranges | |
| CO | 0 ... 75 mg/m ³ / 0 ... 750 mg/m ³ / 0 ... 3,000 mg/m ³ |
| CO ₂ | 0 ... 25 Vol.-% |
| N ₂ O | 0 ... 50 mg/m ³ / 0 ... 500 mg/m ³ |
| NO | 0 ... 100 mg/m ³ / 0 ... 1,000 mg/m ³ / 0 ... 2,000 mg/m ³ |
| SO ₂ | 0 ... 75 mg/m ³ / 0 ... 287 mg/m ³ / 0 ... 2,000 mg/m ³ |
| NO _x | 0 ... 100 mg/m ³ / 0 ... 1,000 mg/m ³ / 0 ... 2,000 mg/m ³ |
| CH ₄ | 0 ... 50 mg/m ³ / 0 ... 500 mg/m ³ |
| Response time (t ₉₀) | 3 s, typical at 60 l/h, depending on cell length and gas flow |
| Sensitivity drift | ≤ 1 %: of measuring range full scale per week |
| Zero point drift | ≤ 1 %: of smallest measuring range per week |
| Measuring ranges smaller than 2 x smallest measuring range | ≤ 2 %: of smallest measuring range per week |
| Conformities | Approved for plants requiring approval 2001/80/EC (13. BImSchV) 2000/76/EC (17. BImSchV) 27. BImSchV TA-Luft (Prevention of Air Pollution) EN 15267 EN 14181 MCERTS |
| Corrective functions | Manual or automatic adjustment with test gases or adjustment cell |
| Test functions | Self test and fault diagnosis |

BCU control unit

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|------------------------------|--|
| Modbus | ✓ |
| Type of fieldbus integration | TCP RTU RS-485 |
| Ethernet | ✓ |
| Function | Connection to SOPAS ET software or OPC server |
| Indication | Status LEDs: "Power," "Failure," and "Maintenance request" |
| | LC display |
| Operation | Via LC display and membrane keyboard |

I/O module

| | |
|-----------------|---|
| Description | Closed module with top-hat rail adapter or module for integration into enclosures |
| Analog outputs | 4 outputs: 0/2/4 ... 20 mA, 500 Ω Electrically isolated |
| Analog inputs | 2 inputs: 0/4 ... 20 mA Not electrically isolated |
| Digital outputs | 8 outputs: 34 V AC, 500 mA / 48 V DC, 500 mA |
| Digital inputs | 8 inputs: 42 V All inlets with common reference potential |

Gas module

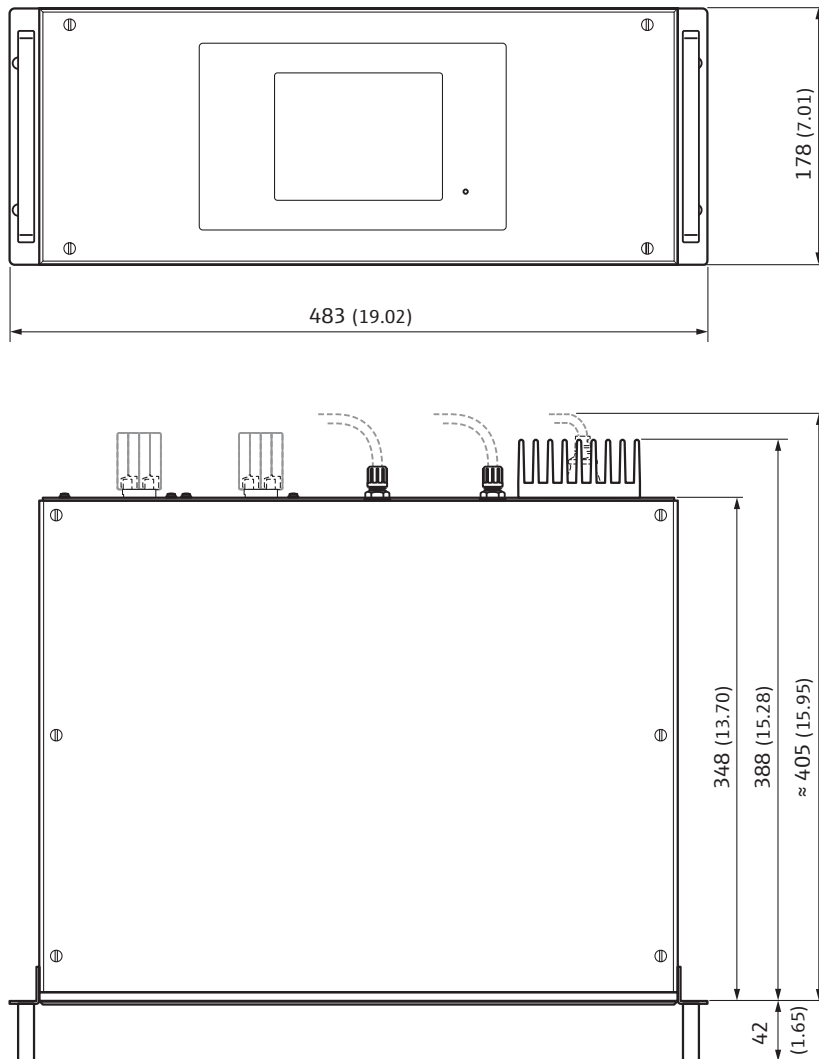
| | |
|------------------------|---|
| Sample gas connections | PVDF compression fitting: for hose 6 x 1 mm |
| | Swagelok 6 mm: stainless steel, for metal tube |
| | Swagelok 1/4": stainless steel, for metal tube |
| Options | Magnetic piston pump (0 ... 60 l/h at 100 hPa low pressure) Humidity sensor Pressure sensor (500 ... 1500 hPa) Flow sensor (0 ... 100 l/h, ±20%) |

Ordering information

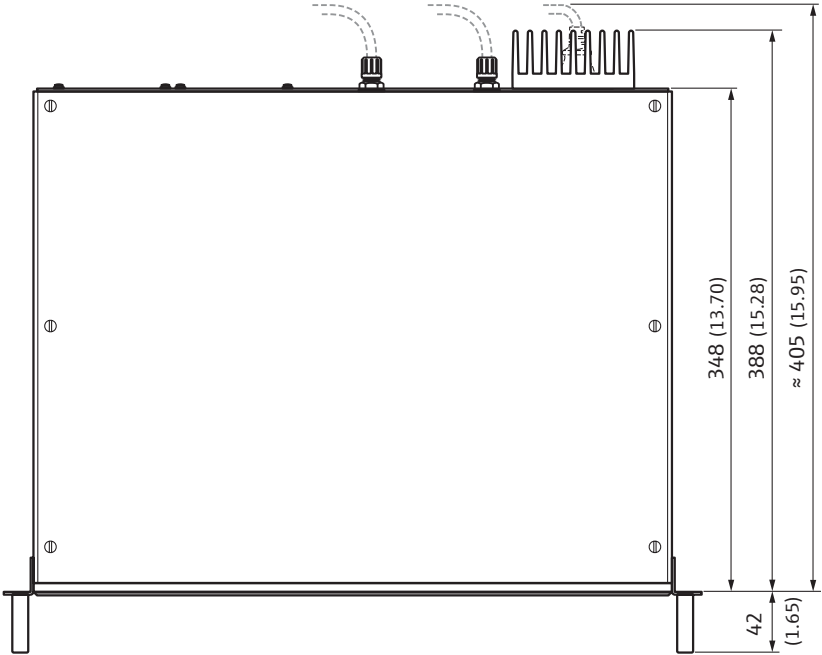
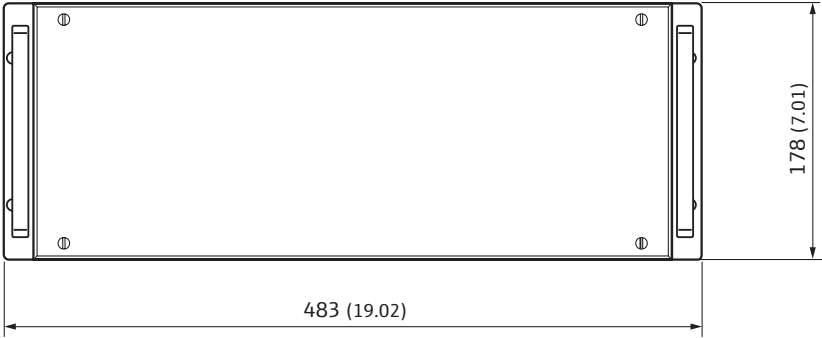
Our regional sales organization will help you to select the optimum device configuration.

Dimensional drawings

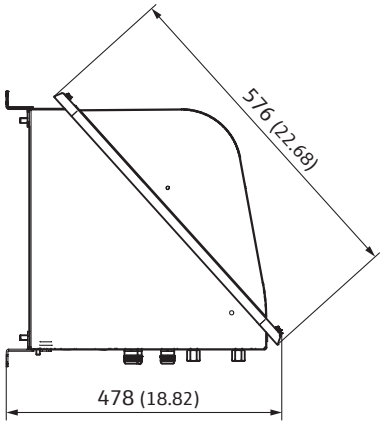
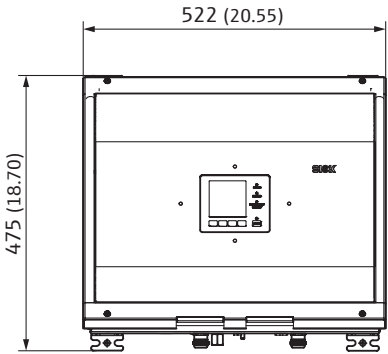
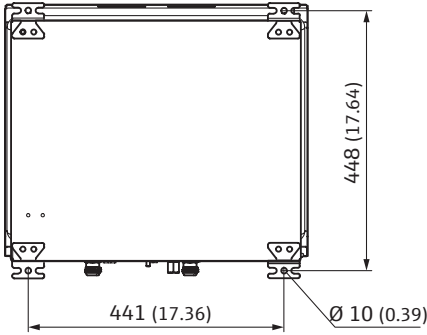
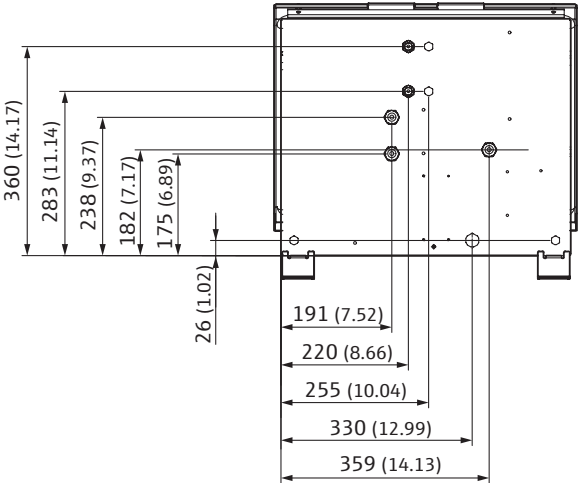
GMS810 design (dimensions in mm (inch))



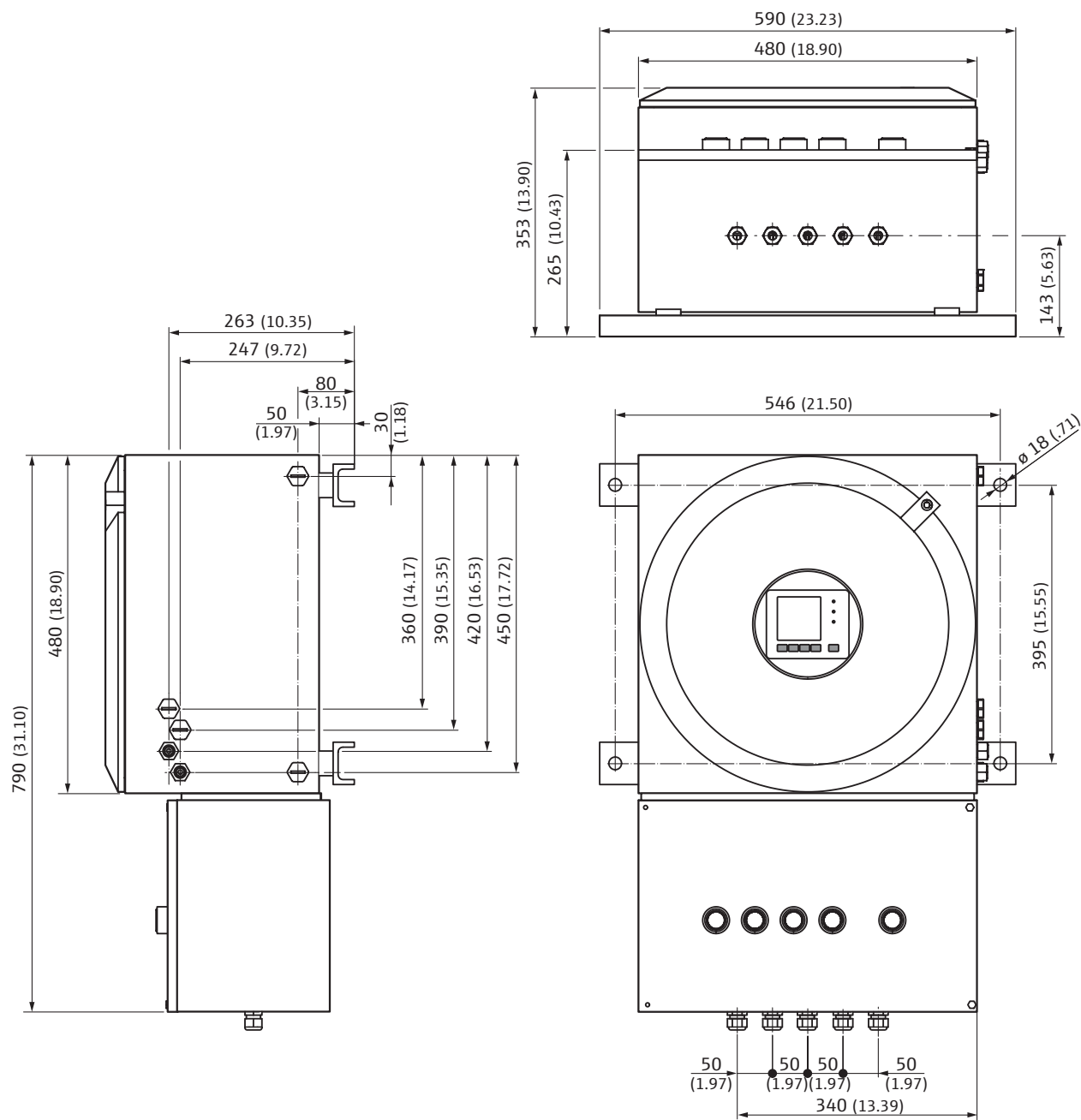
GMS811 design (dimensions in mm (inch))



GMS840 design (dimensions in mm (inch))

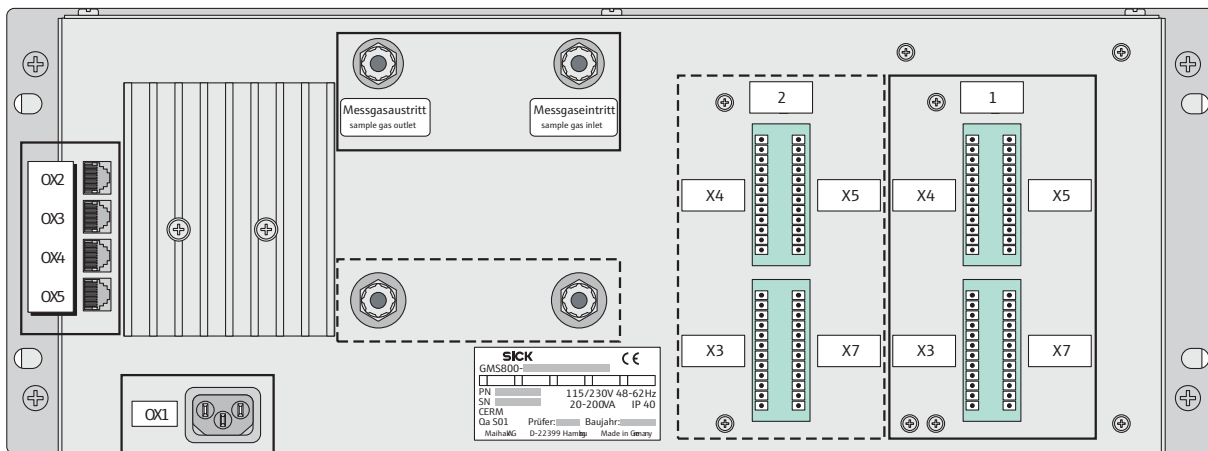


GMS820P design (dimensions in mm (inch))

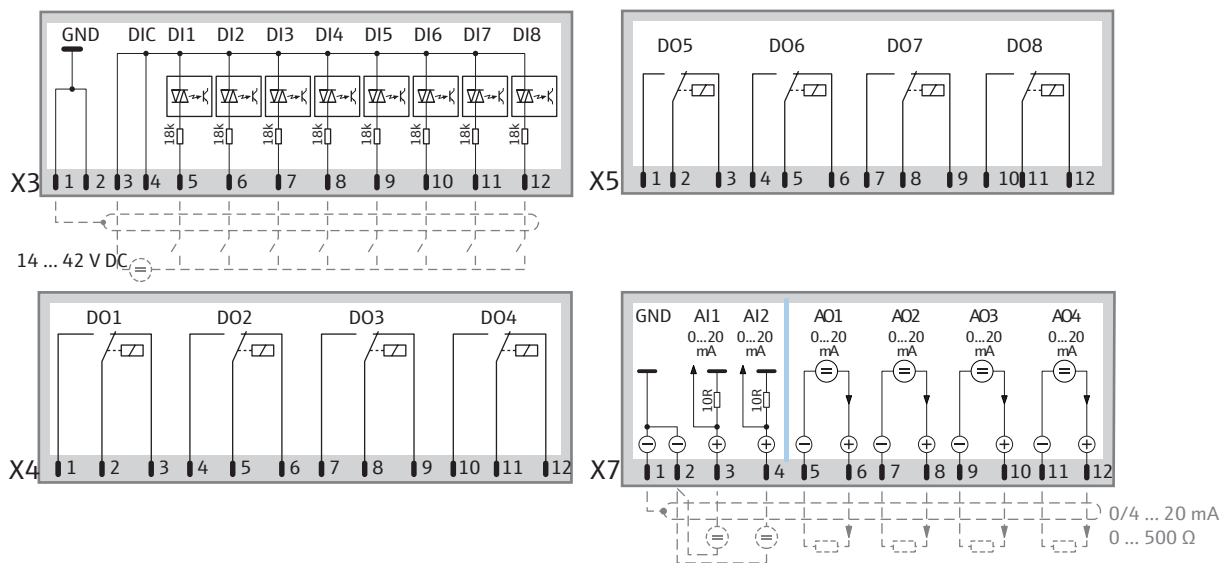


Connection types

GMS810 design



GMS800 I/O module



www.addresses.endress.com

Eco-friendly produced and printed on paper
from sustainable forestry.

IN 8029962 / EHS / EN / 05.00