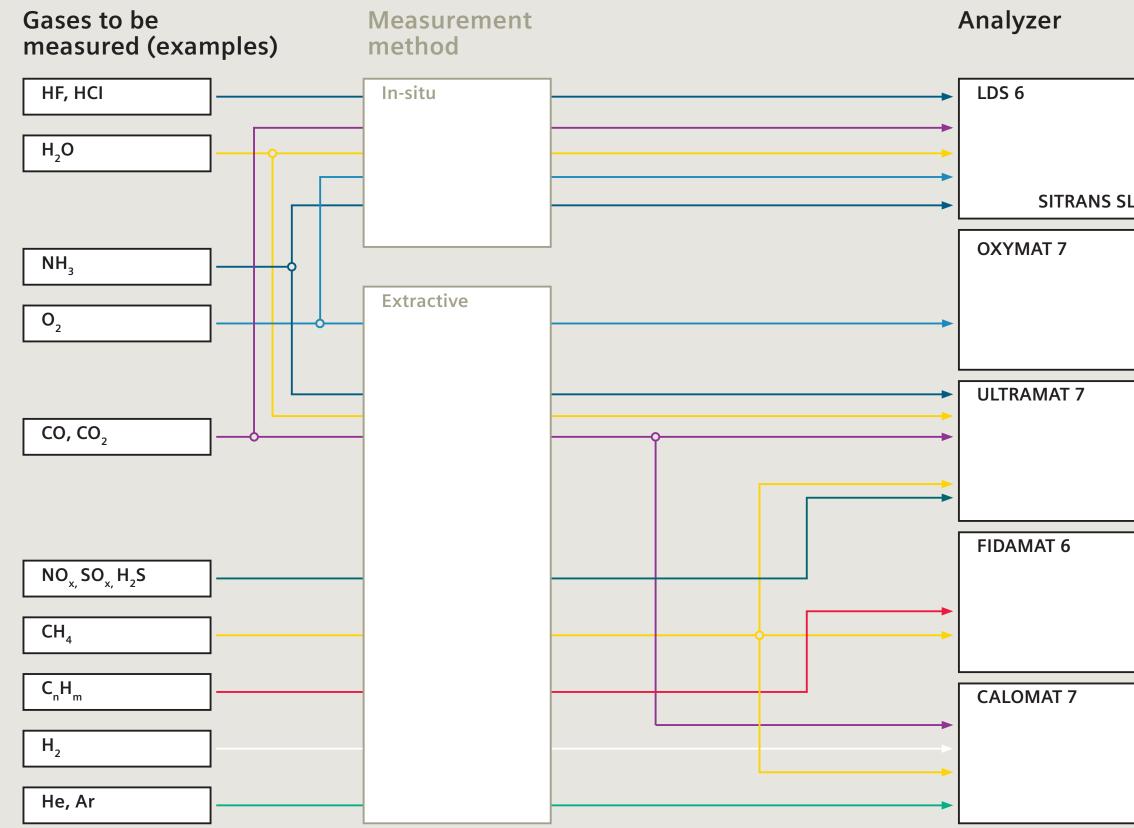
How to find the right product

The diagram will help you find the appropriate analyzer for your measurement task.



Published by Siemens Industry, Inc.

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Possible versions

Rack unit with in-situ laser Ex version

Field devices also in Ex version

Rack unit Wall Mount

Rack unit Wall Mount

Rack unit

Rack unit Wall Mount



ANALYTICAL PRODUCTS AND SOLUTIONS

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	Extractive analyzers					Extractive and in-situ analyzers		Measuring properties
	OXYMAT 7	ULTRAMAT 7	ULTRAMAT 23	CALOMAT 7	FIDAMAT 6	LDS 6	SITRANS SL	
Measurement method	Extractive	Extractive	Extractive	Extractive	Extractive	In-situ / extractive	In-situ / extractive	Measurement method
Measuring method	Paramagnetism	NDIR two-beam principle	NDIR single-beam principle	Thermal conductivity	Flame ionization	TDLS	TDLS	Measuring method
Max. number	1	4	3 IR + O ₂ , H ₂ S	1	1	2	1	Max. number
of components								of components
Components	Oxygen	e.g. CO, CO ₂ , NO, SO ₂ , CH ₄ , hydrocarbons	e.g. CO, CO ₂ , NO, SO ₂ , CH ₄ , O ₂ , H ₂ S	е.д. Н ₂ , Не	Total hydrocarbons	O ₂ , NH ₃ , HF, H ₂ O, CO ₂ , CO, HCl	0 ₂ , CO	Components
Smallest measuring range	0-0,5%	Component-specific: 0-5/0-100 ppm	Component-specific: 0-50/0-500 vpm	0–1%	0–10 vpm	Component-specific: 0-5 ppm to 0-5 %	O_2 : 0–1% @ 1 m effective opt. path length CO: 0–100 ppm @ 1 m effective opt. path length	Smallest measuring ran
Detection limit	50 ppm	Component-specific: from 0.05 ppm	Component-specific: from 0.5 vpm	0.01 %	50 / 100 ppb	Component-specific: from 0.1 ppm @ 1 m effective opt. path length	O_2 : 200 ppm @ 1 m effective opt. path length CO: 0.6 ppm @ 1 m effective opt. path length	Detection limit
Housing / material	Rack or Wall Mount	Rack or wall mount	19" rack unit	19" rack unit	19" rack unit	Central unit: 19" unit, sensors: field version	Field version	Housing/material
Degree of protection	IP20	IP20	IP20	IP20	IP20	Central unit: IP20, sensors: IP65	IP65	Degree of protection
Material of gas path	Viton, stainless steel, titanium	Viton, stainless steel, titanium	Viton, stainless steel	Stainless steel	Stainless steel	Purging tubes: stainless steel, special materials on request	Purging tubes: stainless steel	Material of gas path
Material of measuring chamber	Stainless steel, tantalum	Aluminum, TA layer	Aluminum	Stainless steel	Stainless steel	-	-	Material of measuring chamber
Connections	6 mm/¼"	6 mm/¼"	6 mm / ¼"	6 mm/¼"	6 mm / ¼"	Sensor connections in DN 65 / PN6, ANSI 4"/150 lbs, DN 80 / PN 16	Sensor connections in DN 50 / PN 16, ANSI 4"1150 lbs	Connections
Heater option	-	-	-	-	up to 200° C	Extractive cell 200 °C		Heater option
Special applications	Further materials with special applications	Further materials with special applications	-	Further materials with special applications	-	Further materials and connections with special applications	Further materials and connections with special applications	Special applications
Certificates / signals	19" rack unit	Rack or wall mount	19" rack unit	19" rack unit	19" rack unit	Central unit: 19" unit, sensors: field version	Central unit: 19" unit, sensors: field version	Certificates/signals
τϋν	13./17. BlmSchV	13./17. BlmSchV	13./27./30. BImSchV/Kyoto	n.a.	13./17. BlmSchV	NH ₃ , NH ₃ /H ₂ O, H ₂ O, HCl, HCl/H ₂ O applications: 17. BlmSchV	-	ΤÜV
Further approvals (emission)	QAL1, MCERTS	QAL1, MCERTS	QAL1, MCERTS	n.a.	QAL1, MCERTS	QAL1, MCERTS	-	Further approvals (emission)
EX	ATEX II 3G Class I Div 2	ATEX II 3G Class I Div 2	ATEX II 3G Class I Div 2	ATEX II 3G Class I Div 2	[ATEX II 3 G] with cabinet	ATEX II 1GD T 135° EEx ia IIC T4	ATEX II 2 G Ex de op is IIC T61, ATEX II 2 D Ex tD A21 IP65 T85, FM Class I, II, III Div 1, FM Class I, Zone 1, FM Class II, Zone 21	EX
Analog output	0/2/4-20 mA	0/2/4–20 mA per component	0/2/4–20 mA per component	0/2/4-20 mA	0/2/4-20 mA	2 per channel (measurement spot) (up to 3 channels)	2	Analog output
Communication	PROFIBUS, MODBUS, RS 485 / Ethernet	PROFIBUS, MODBUS RS 485/Ethernet	PROFIBUS, RS 485/Ethernet	PROFIBUS, RS 485/Ethernet	PROFIBUS, RS 485/Ethernet	Analog, Ethernet	Analog, PROFIBUS DP, Modbus RTU, Ethernet	Communication
							2/2	Dinema innate (easterate
	12 outputs, 8 inputs	12 outputs, 8 inputs	8 of each as standard, expandable	12 outputs, 8 inputs	-	6 per channel (measurement spot) (up to 3 channels)	2/2	Binary inputs/outputs
Binary inputs / outputs	12 outputs, 8 inputs 19″ rack unit	12 outputs, 8 inputs 19" rack unit		12 outputs, 8 inputs 19" rack unit	- 19" rack unit		ZIZ Central unit: 19" unit, sensors: field version	Sample gas conditions
Binary inputs/outputs Sample gas conditions Temperature			standard, expandable		- 19" rack unit 0–200° C	(up to 3 channels)		











Siemens offers a wide and innovative continuous gas analysis portfolio designed to meet all users expectations for comprehensive products and solutions.

ULTRAMAT 23 (extractive)

Single beam NDIR multi-component gas analyzer. Measures up UV absorption principle with true reference measurement for to 3 IR active gases, measures O, with electrochem cell for many individual or simultaneous measurement of up to three gas standard applications and emissions monitoring. Optional H₂S components: NO, NO₂, SO₂ and H₂S. electrochem cell for biogas/landfill application.

ULTRAMAT 7 (extractive)

Tough application multi-component dual beam NDIR analyzer for measuring infrared active gases in highly corrosive, chemical based on chemiluminescence's principle. and hydrocarbon applications for ppm - % level and multicomponent measurements based on infrared absorption principle.

OXYMAT 7 (extractive)

Our time proven tough application oxygen analyzer based on alternating pressure paramagnetic principle. SIL 2 approved.

CALOMAT 7 (extractive)

Gas analyzer for corrosive application in the measurement of hydrogen and noble gases in binary gas mixtures based on thermal conductivity principles.

FIDAMAT 6 (extractive)

Gas analyzer for continuous total hydrocarbon measurement based on flame ionization detection principle.

SIPROCESS UV600 (UVRAS)

Siemens NOxMAT 600 CLD & HCLD (Heated Version)

Gas analyzer for continuous measurement of NO and NOx

LDS 6 (in-situ)

A multipoint, In-situ Tunable Diode Laser gas analysis for NH₃, O_2 , CO, CO₂, H₂O, HCl, and HF in NH₂ slip, process control, combustion, and safety applications.

SITRANS SL (in-situ)

Single point, in-situ Tunable Diode Laser gas analysis for O₂ in combustion, process control and safety applications.

Continuous Emissions Monitoring System (CEMS)

The CEMS is designed to monitor nitrogen oxides, carbon monoxide and oxygen in process boilers and furnaces according to 40 CFR 60.