

SS2100i气体分析仪

特别可靠地进行痕量气体组份测量



详细信息和最新价格参见:

www.endress.com.cn/SS2100I

优势:

- 高精度实时测量结果，不受气体湿润（吸收）或干燥（解吸）的影响
- 在恶劣工况下几乎免维护，可靠工作
- 同表面传感器相比，重复性更高，分析仪校准通过NIST溯源认证
- 模拟量输出和串行输出信号，支持远程监控
- 低使用成本，无耗材
- 可以测量下列气体组份： H_2O 、 CO_2 、 H_2S 、 NH_3 、 C_2H_2
- 通过ATEX/IECEX Zone 1防爆认证

产品规格参数

- **Measured Variables** Concentration Cell Pressure Cell Temperature
- **Hazardous area approvals** IECEX / ATEX / CNEx / KC / CCOE / CML Zone 1

应用领域: SS2100i气体分析仪采用TDLAS可调谐二极管激光吸收光谱技术，对痕量气体组份（ H_2O 、 CO_2 、 H_2S 、 NH_3 和 C_2H_2 ）进行高精度测量。分析仪几乎无维护需求，无需重新校准或定期更换部件。SS2100i气体分析仪通过ATEX/IECEX Zone 1防爆认证。

特征和规格

H2S

测量原理

TDLAS

Product Headline

An advanced gas analyzer for hydrogen sulfide (H_2S) measurement. The SS2100i uses Tunable Laser Diode Absorption Spectroscopy (TDLAS) to determine the concentration of the analyte without coming into physical contact with the stream.

H2S

Channels

1

Analyte and Measurement ranges

H2S (Hydrogen Sulfide): 0-10 to 0-1000 ppmv; 0-5000 ppmv to 0-5%

Measured Variables

Concentration

Cell Pressure

Cell Temperature

Ambient Temperature range

-20 to 50°C (-4 to 122°F)

Optional (i-2 only): -10 to 60°C (14 to 140°F)

Operating Pressure range

Inlet Pressure: 140-350 kPa (20-50 psig)

Sample Cell: 800-1200 mbara or 950-1700 mbara (optional)

Analyzer Wetted materials

316L Stainless Steel

FKM O-Rings

Glass

Power supply120 or 240 VAC \pm 10%, 50-60 Hz; 300W**Communication**

Analog Output: Two 4-20mA Isolated, 1200 ohms @ 24 VDC max load (measurement value)

Analog Input: One 4-20mA Isolated, 1200 ohms @ 24 VDC max load (process pressure)

Serial: RS232C and Ethernet

Protocol: Modbus Gould RTU or Daniel RTU or ASCII

Digital Outputs: 5, Concentration Alarm, General Fault, Validation Fail, Validation 1 Active, Validation 2 Active

Digital Inputs: 2, Flow Alarm, Validation Request

H2S

Housing materials

Electronics: Copper-free Aluminum

Laser/Cell Enclosure: Copper-free Aluminum (i-2 only)

Sample System Enclosure: 304 or 316 Stainless Steel

Hazardous area approvals

IECEX / ATEX / CNEC / KC / CCOE / CML Zone 1

Degree of protection

IP66

Product safety

CE

Metrological approvals

PAC China, Kazakhstan (i-1 only)

H2O

测量原理

TDLAS

Product Headline

An advanced gas analyzer for moisture (H2O) measurement. The SS2100i uses Tunable Laser Diode Absorption Spectroscopy (TDLAS) to determine the concentration of the analyte without coming into physical contact with the stream.

Channels

1

Analyte and Measurement ranges

H2O (Moisture): 0-10 to 0-100 ppmv; 0-50 to 0-5000 ppmv

Measured Variables

Concentration

Moisture Dew Point

Cell Pressure

Cell Temperature

H2O

Ambient Temperature range

-20 to 50°C (-4 to 122°F)

Optional (i-2 only): -10 to 60°C (14 to 140°F)

Operating Pressure range

Inlet Pressure: 140-350 kPa (20-50 psig)

Sample Cell: 800-1200 mbara or 950-1700 mbara (optional)

Analyzer Wetted materials

316L Stainless Steel

FKM O-Rings

Glass

Power supply

120 or 240 VAC \pm 10%, 50-60 Hz; 300W

Communication

Analog Output: Two 4-20mA Isolated, 1200 ohms @ 24 VDC max load (measurement value)

Analog Input: One 4-20mA Isolated, 1200 ohms @ 24 VDC max load (process pressure)

Serial: RS232C and Ethernet

Protocol: Modbus Gould RTU or Daniel RTU or ASCII

Digital Outputs: 5, Concentration Alarm, General Fault, Validation Fail, Validation 1 Active, Validation 2 Active

Digital Inputs: 2, Flow Alarm, Validation Request

Housing materials

Electronics: Copper-free Aluminum

Laser/Cell Enclosure: Copper-free Aluminum (i-2 only)

Sample System Enclosure: 304 or 316 Stainless Steel

Hazardous area approvals

IECEX / ATEX / CNEx / KC / CCOE / CML Zone 1

Degree of protection

IP66

H2O	<p>Product safety CE</p> <hr/> <p>Metrological approvals PAC China, Kazakhstan (i-1 only)</p>
CO2	<p>测量原理 TDLAS</p> <hr/> <p>Product Headline An advanced gas analyzer for carbon dioxide (CO2) measurement. The SS2100i uses Tunable Laser Diode Absorption Spectroscopy (TDLAS) to determine the concentration of the analyte without coming into physical contact with the stream.</p> <hr/> <p>Channels 1</p> <hr/> <p>Analyte and Measurement ranges CO2 (Carbon Dioxide): 0-10 to 0-1000 ppmv; 0-5000 ppmv to 0-5%</p> <hr/> <p>Measured Variables Concentration Cell Pressure Cell Temperature</p> <hr/> <p>Ambient Temperature range -20 to 50°C (-4 to 122°F) Optional (i-2 only): -10 to 60°C (14 to 140°F)</p> <hr/> <p>Operating Pressure range Inlet Pressure: 140-350 kPa (20-50 psig) Sample Cell: 800-1200 mbara or 950-1700 mbara (optional)</p>

CO2

Analyzer Wetted materials

316L Stainless Steel
FKM O-Rings
Glass

Power supply

120 or 240 VAC \pm 10%, 50-60 Hz; 300W

Communication

Analog Output: Two 4-20mA Isolated, 1200 ohms @ 24 VDC max load (measurement value)
Analog Input: One 4-20mA Isolated, 1200 ohms @ 24 VDC max load (process pressure)
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Housing materials

Electronics: Copper-free Aluminum
Laser/Cell Enclosure: Copper-free Aluminum (i-2 only)
Sample System Enclosure: 304 or 316 Stainless Steel

Hazardous area approvals

IECEX / ATEX / CNEx / KC / CCOE / CML Zone 1

Degree of protection

IP66

Product safety

CE

Metrological approvals

PAC China, Kazakhstan (i-1 only)

NH3

测量原理

TDLAS

Product Headline

An advanced gas analyzer for ammonia (NH₃) measurement. The SS2100i uses Tunable Laser Diode Absorption Spectroscopy (TDLAS) to determine the concentration of the analyte without coming into physical contact with the stream.

Channels

1

Analyte and Measurement rangesNH₃ (Ammonia): 0-5 ppmv**Measured Variables**

Concentration

Cell Pressure

Cell Temperature

Ambient Temperature range

-20 to 50°C (-4 to 122°F)

Optional (i-2 only): -10 to 60°C (14 to 140°F)

Operating Pressure range

Inlet Pressure: 140-350 kPa (20-50 psig)

Sample Cell: 800-1200 mbara or 950-1700 mbara (optional)

Analyzer Wetted materials

316L Stainless Steel

FKM O-Rings

Glass

Power supply

120 or 240 VAC ±10%, 50-60 Hz; 300W

NH3	<p>Communication</p> <p>Analog Output: Two 4-20mA Isolated, 1200 ohms @ 24 VDC max load (measurement value)</p> <p>Analog Input: One 4-20mA Isolated, 1200 ohms @ 24 VDC max load (process pressure)</p> <p>Serial: RS232C and Ethernet</p> <p>Protocol: Modbus Gould RTU or Daniel RTU or ASCII</p> <p>Digital Outputs: 5, Concentration Alarm, General Fault, Validation Fail, Validation 1 Active, Validation 2 Active</p> <p>Digital Inputs: 2, Flow Alarm, Validation Request</p>
	<p>Housing materials</p> <p>Electronics: Copper-free Aluminum</p> <p>Laser/Cell Enclosure: Copper-free Aluminum (i-2 only)</p> <p>Sample System Enclosure: 304 or 316 Stainless Steel</p>
	<p>Hazardous area approvals</p> <p>IECEX / ATEX / CNEEx / KC / CCOE / CML Zone 1</p>
	<p>Degree of protection</p> <p>IP66</p>
	<p>Product safety</p> <p>CE</p>
	<p>Metrological approvals</p> <p>PAC China, Kazakhstan (i-1 only)</p>

C2H2

测量原理

TDLAS

Product Headline

An advanced gas analyzer for acetylene (C2H2) measurement. The SS2100i uses Tunable Laser Diode Absorption Spectroscopy (TDLAS) to determine the concentration of the analyte without coming into physical contact with the stream.

C2H2

Channels

1

Analyte and Measurement ranges

C2H2 (Acetylene): 0-5; 0-3000 ppmv

Measured Variables

Concentration

Cell Pressure

Cell Temperature

Ambient Temperature range

-20 to 50°C (-4 to 122°F)

Optional (i-2 only): -10 to 60°C (14 to 140°F)

Operating Pressure range

Inlet Pressure: 140-350 kPa (20-50 psig)

Sample Cell: 800-1200 mbara or 950-1700 mbara (optional)

Analyzer Wetted materials

316L Stainless Steel

FKM O-Rings

Glass

Power supply120 or 240 VAC \pm 10%, 50-60 Hz; 300W**Communication**

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Digital Inputs: 2, Flow Alarm, Validation Request

C2H2

Housing materials

Electronics: Copper-free Aluminum

Laser/Cell Enclosure: Copper-free Aluminum (i-2 only)

Sample System Enclosure: 304 or 316 Stainless Steel

Hazardous area approvals

IECEX / ATEX / CNEx / KC / CCOE / CML Zone 1

Degree of protection

IP66

Product safety

CE

Metrological approvals

PAC China, Kazakhstan (i-1 only)

更多信息 www.endress.com.cn/SS2100I