

SS2100a气体分析仪

特别可靠地进行痕量气体组份测量



优势:

- 高精度实时测量结果
- 低使用成本；无需耗材，几乎无需维护，在严苛工况下可靠测量
- 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
- 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
- 可以测量下列气体组份：H₂O、CO₂、H₂S、NH₃、C₂H₂
- 通过ATEX Zone 2防爆认证

产品规格参数

- **Measured Variables** Concentration Cell Pressure Cell Temperature
- **Hazardous area approvals** ATEX Zone 2

详细信息和最新价格参见:

www.endress.com.cn/SS2100A

应用领域: SS2100a气体分析仪采用TDLAS可调谐激光二极管吸收光谱技术，对天然气和烃类加工应用场合中的痕量气体组份（H₂O、CO₂、H₂S、NH₃和C₂H₂）进行高精度测量。分析仪维护工作量低，无需重新校准或定期更换部件。SS2100a通过ATEX Zone 2防爆认证。

特征和规格

H2S

测量原理

TDLAS

Product Headline

An advanced gas analyzer for hydrogen sulfide (H₂S) measurement. The SS2100a 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: -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; 60W max (with 2 solenoids) -
electronics enclosure120 or 240 VAC, 50-60 Hz - standard; 100W or 200W max for heated
systems - sample cabinet

H2S**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

Sample System Enclosure: 304 or 316 Stainless Steel

Hazardous area approvals

ATEX Zone 2

Degree of protection

IP66

Product safety

CE

H2O**测量原理**

TDLAS

Product Headline

An advanced gas analyzer for moisture (H2O) measurement. The SS2100a uses Tunable Laser Diode Absorption Spectroscopy (TDLAS) to determine the concentration of the analyte without coming into physical contact with the stream.

Channels

1

H2O

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

Ambient Temperature range

-20 to 50°C (-4 to 122°F)
Optional: -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; 60W max (with 2 solenoids) -
electronics enclosure
120 or 240 VAC, 50-60 Hz - standard; 100W or 200W max for heated
systems - sample cabinet

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

H2O

Housing materials

Electronics: Copper-free Aluminum

Sample System Enclosure: 304 or 316 Stainless Steel

Hazardous area approvals

ATEX Zone 2

Degree of protection

IP66

Product safety

CE

CO2

测量原理

TDLAS

Product Headline

An advanced gas analyzer for carbon dioxide (CO₂) measurement. The SS2100a 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 rangesCO₂ (Carbon Dioxide): 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: -10 to 60°C (14 to 140°F)

CO2

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; 60W max (with 2 solenoids) - electronics enclosure

120 or 240 VAC, 50-60 Hz - standard; 100W or 200W max for heated systems - sample cabinet

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

Sample System Enclosure: 304 or 316 Stainless Steel

Hazardous area approvals

ATEX Zone 2

Degree of protection

IP66

Product safety

CE

NH3

测量原理

TDLAS

Product Headline

An advanced gas analyzer for ammonia (NH₃) measurement. The SS2100a 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: -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; 60W max (with 2 solenoids) - electronics enclosure

120 or 240 VAC, 50-60 Hz - standard; 100W or 200W max for heated systems - sample cabinet

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> <hr/> <p>Housing materials</p> <p>Electronics: Copper-free Aluminum</p> <p>Sample System Enclosure: 304 or 316 Stainless Steel</p> <hr/> <p>Hazardous area approvals</p> <p>ATEX Zone 2</p> <hr/> <p>Degree of protection</p> <p>IP66</p> <hr/> <p>Product safety</p> <p>CE</p> <hr/>
C2H2	<p>测量原理</p> <p>TDLAS</p> <hr/> <p>Product Headline</p> <p>An advanced gas analyzer for acetylene (C2H2) measurement. The SS2100a 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</p> <p>1</p> <hr/>

C2H2

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: -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; 60W max (with 2 solenoids) - electronics enclosure

120 or 240 VAC, 50-60 Hz - standard; 100W or 200W max for heated systems - sample cabinet

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

C2H2

Housing materials

Electronics: Copper-free Aluminum

Sample System Enclosure: 304 or 316 Stainless Steel

Hazardous area approvalsATEX Zone 2

Degree of protectionIP66

Product safetyCE

更多信息 www.endress.com.cn/SS2100A