



Laser Gas Analyzer

A flame proof tunable laser gas analyzer based on TDLAS technology, which can in-situ analyze O₂, CO, NH₂, CO₂, CH₂, H₂O, HCl, HF and other gases in various complex conditions. It consists of transmitter, receiver and connection box. The transmitter drives the tunable diode to emit laser of certain wavelengths, which passes through the environment to be measured, then reaches the receiver. The receiver performs photo electricity conversion, signal processing and spectrum data analysis to obtain the measuring result. The connection box contains I/O interface, making the connection of power cable and signal cable convenient..

Specification Parameters - 100

Technical indication	
Optical Channel Length	20m
Linearity Error	±1% F.S.
Repeatability	1%
Span Drift	±1%F.S.I half year
Zero Drift	±1%F.S.I half year
Maintenance Cycle	2 times/year, clean optical window
Calibration Cycle	2 times/year
Type of Protection	Exdii CT 6Gb
Enclosure Rating	IP66
Response Time(T)	1s
Interface signal	
Analog output	2x4-20mA output (Isolation, max load 7500)
Analog Input	2x4-20mA input (temp. and press. Compensation)
Digital Output	RS48S/RS232/GPRS
Relay Output	2 (24V, 1A)
Operating Conditions	
Power Supply	24VDC, <20W
Purge Gas	0.3 MPa- 0.5 MPa industrial nitrogen, purification instrument air, etc.
Ambient Temperature	20'C - + 60'C
Installation	
Installation Way	In-situ installation

Specification parameters - 106

Technical Indication	
<i>Linearity Error</i>	<i>1% F.S</i>
<i>Repeatability</i>	<i>1%</i>
<i>Span Drift</i>	<i>1% F.S half year</i>
<i>Zero Drift</i>	<i>1%F.S./half year</i>
<i>Calibration Cycle</i>	<i>2 times/year</i>
<i>Type of Protection</i>	<i>Ext!ICT6Gb</i>
<i>Enclosure Rating</i>	<i>IP66</i>
<i>Preheating Time</i>	<i>15 minutes</i>
<i>Response Time(T00)</i>	<i>30s(related to the working condition</i>
Interface Single	
<i>Analog Output</i>	<i>2x4-20mAoutput(isolation,maxload7500</i>
<i>Analog Input</i>	<i>2x4-20mA input (temp. and press. Compensation)</i>
<i>Digital Output</i>	<i>RS485/RS232/GPRS</i>
<i>Relay Output</i>	<i>3(24V,1A)</i>

Operating Condition	
<i>Power Supply</i>	<i>24VDC, <20W(without pretreatment system components)</i>
<i>Purge Gas</i>	<i>0.3MPa 0.8MP a industrial nitrogen, purification instrument air, etc</i>
<i>Ambient Temperature</i>	<i>-20't-+60't</i>
Installation	
<i>Installation Way</i>	<i>By-pass type installation</i>

Specification parameters 150

Technical Indication	
<i>Linearity Error</i>	<i>1% F.S</i>
<i>Span Drift</i>	<i>1% F.S half year</i>
<i>Zero Drift</i>	<i>1%F.S./half year</i>
<i>Maintenance Cycle</i>	<i>2times/year, clean optical window</i>
<i>Calibration Cycle</i>	<i>2 times/year</i>
<i>Type of Protection</i>	<i>Ext!ICT6Gb</i>
<i>Enclosure Rating</i>	<i>IP66</i>
<i>Central Unit Enclosure Rating</i>	<i>IP54</i>
Interface Single	
<i>Analog Output</i>	<i>2x4-20mAoutput (a single measurement probe) 5x4-20mAoutput (central unit, optional)</i>

Analog Input	2x4-20mA input (temp. and press. Compensation)
Digital Output	RS485/RS232/GPRS
Relay Output	2(a single measurement probe) 8(central unit, optional)

Operating Condition	
Measurement unit Power Supply	24VDC, 20W
Central Unit Power Supply	100VAC-240VAC
Purge Gas	0.3MPa 0.8MPa industrial nitrogen, purification instrument air, etc
Ambient Temperature	-20't-+60't
Installation	
Measurement Unit Installation	In-situ installation
Central Unit Installation	Wall or plate mounted

Specification parameters – 180

Technical Indication	
Linearity Error	1% F.S
Repeatability	1%
Span Drift	1% F.S half year
Zero Drift	1%F.S./half year
Maintenance Cycle	2times/year, (related to the working condition)
Calibration Cycle	2 times/year (or automatic calibration)
Enclosure Rating	IP54
Response Time(T)	30s(related to the working condition)

Interface Single	
Analog Output	2x4-20mA output (isolation, max load 7500)
Analog Input	2x4-20mA input (temp. and press. Compensation)
Digital Output	RS485/RS232/GPRS
Relay Output	3 (24V,1A)

Operating Condition	
Power Supply	100VAC-240VAC
Purge Gas	0.3MPa 0.8MPa industrial nitrogen, purification instrument air, etc.
Ambient Temperature	-20't-+60't
Installation	
Installation way	Sampling installation

Specification parameters – 200

Technical Indication	
Linearity Error	1% F.S
Repeatability	1%
Span Drift	1% F.S half year
Zero Drift	1%F.S./half year
Maintenance Cycle	2times/year, (clean optical window)
Calibration Cycle	2 times/year (or automatic calibration)
Type of protection	BxdiiB+H,TSGb
Enclosure Rating	IP65
Preheating time	15 minutes
Response Time(T)	30s(related to the working condition)
Interface Single	
Analog Output	2x4-20mA output (isolation, max load 7500)
Analog Input	2x4-20mA input (temp. and press. Compensation)
Digital Output	RS485/RS232/GPRS
Relay Output	3 (24V,1A)
Operating Condition	
Power Supply	100VAC-240VAC
Ambient Temperature	-20't-+55't
Installation	
Installation way	Sampling installation

Specification parameters - 350

Technical Indication	
Linearity Error	2% F.S
Repeatability	1%
Span Drift	2% F.S half year
Zero Drift	2%F.S./half year
Maintenance Cycle	2 times/year, (clean optical window)
Calibration Cycle	2 times/year
Enclosure Rating	IP54
Response Time(T)	30s (related to the working condition)
Interface Single	
Analog Output	2x4-20mA output (isolation, max load 750 Ω)
Analog Input	2x4-20mA input (temp. and press. Compensation)
Digital Output	RS485/RS232/GPRS
Relay Output	2(24V,1A)

<i>Operating Condition</i>	
<i>Power Supply</i>	<i>24VDC or 220VAC</i>
<i>Purge Gas</i>	<i>0.3 MPa 0.8 MPa industrial nitrogen, purification instrument air, etc.</i>
<i>Ambient Temperature</i>	<i>-20't - +60't</i>
<i>Installation</i>	
<i>Installation way</i>	<i>Sampling installation</i>

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