

Application questionnaire

Laser gas analyser Single-beam ZSS-S

Are you looking for a reliable solution to continuously analyse your industrial gases? With this application questionnaire for the ZSS laser analyser, we assist you in configuring your measurement system.

This analyser enables precise detection of gases such as HCl in incineration plants, NH₃ in NO_x reduction systems, CO, CO₂, and O₂ in steel and chemical plants, as well as CO₂ in carbon capture, utilisation, and storage systems, among many other industrial and environmental applications.

With direct installation on the stack or gas pipeline (in-situ mounting), the ZSS provides an extremely fast response without the need for gas conditioning. Its high dust tolerance also allows for measurements in environments where traditional sampling methods prove challenging.

Using the data from this questionnaire, our engineers will select the best combination for reliable and precise gas analysis. Please feel free to provide any additional information, either in writing or as a diagram, on the last page of this questionnaire or as an attachment, that would help us understand the specific requirements of your process and further optimise the configuration of your analyser.

Your details

Company name	>	<input style="width: 75%;" type="text"/>
Site / project name	>	<input style="width: 75%;" type="text"/>
Site address	>	<input style="width: 75%;" type="text"/>
Country	>	<input style="width: 75%;" type="text"/>
Contact name		
	>	<input style="width: 75%;" type="text"/>
Telephone	>	<input style="width: 75%;" type="text"/>
Email	>	<input style="width: 75%;" type="text"/>

General data

Industrial sector >

Process type >

Component measured	>	HCl	NH ₃	CO	CO ₂	O ₂
		CH ₄	HCl + H ₂ O	NH ₃ + H ₂ O	CO + CO ₂	

✓ Measuring range (%vol/ppm)

Component 1 > Range: Unit:

Component 2 > Range: Unit:

Process conditions

✓ Parameter of target gas

	Minimum value	Standard value	Maximum value
Concentration range of analysed component 1			
Concentration range of analysed component 2			
Temperature (C°)			
Pressure (kPa)			
Gas velocity (m/s)			
Moisture (vol%)			
Dusts (mg/Nm ₃)			
Other gas components (% vol/ppm)			
Other gas components (% vol/ppm)			
Other gas components (% vol/ppm)			
Other gas components (% vol/ppm)			
Other gas components (% vol/ppm)			
Other gas components (% vol/ppm)			

Ambient temperature > °C

* Receiver unit and transmitter unit

Ambient temperature > °C

* Control unit

Flange specifications > DN50/PN10 ANSI#150 2B

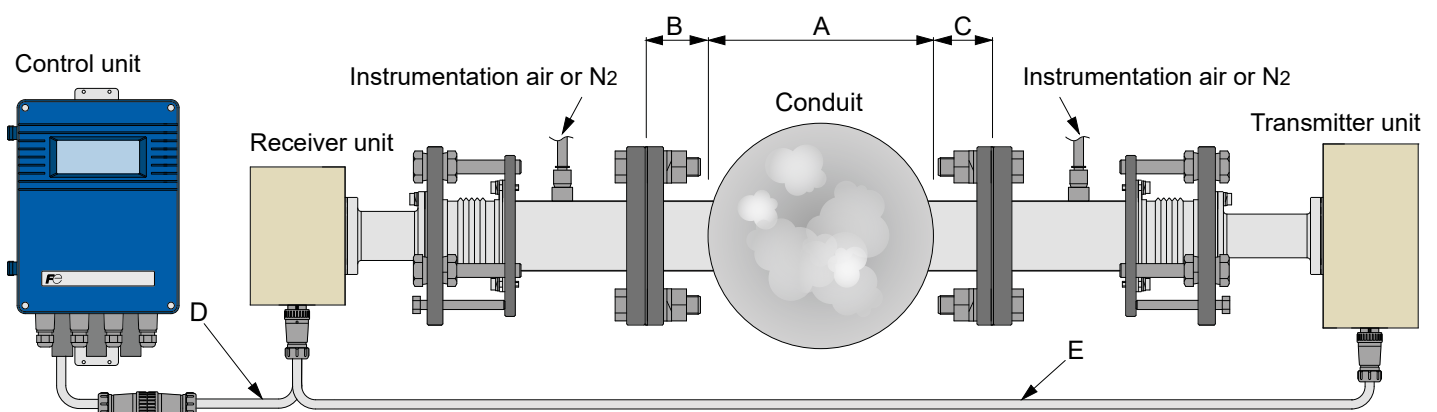
Stack inner diameter A (optical path length) > **A** m mm

Distance B from stack (outside wall) to flange > **B** m mm

Distance C from stack (outside wall) to flange > **C** m mm

Cable D between receiver unit and control unit > **D** m mm

Cable E between receiver unit and transmitter unit > **E** m mm



O₂ correction value > Yes No

* Only for HCl, NH₃ or CO meter

Reference O₂ concentration value (vol %) >

* When the « yes » item is selected in « O₂ correction »

Presence of vibration > Yes (G) No

Options and accessories

Purge gas > N₂ Instrument air

Measurement expression > In dry value In wet value

∨ Analogue inputs

	4-20 mA / No	Range
EA1	4-20 mA No	
EA2	4-20 mA No	

∨ Analogue outputs

	4-20 mA / No	Range
SA1	4-20 mA	
SA2	4-20 mA	
SA3	4-20 mA No	
SA4	4-20 mA No	

Digital inputs : DO1 - DO3 > Yes No

Additional information >



When completed, send the questionnaire to sales.dpt@fujielectric.fr

> If necessary, add any other pertinent documents.



Discover

more about laser gas
analyser technology



Any question?

Please call us at
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Explore

all gas analysis
possibilities

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