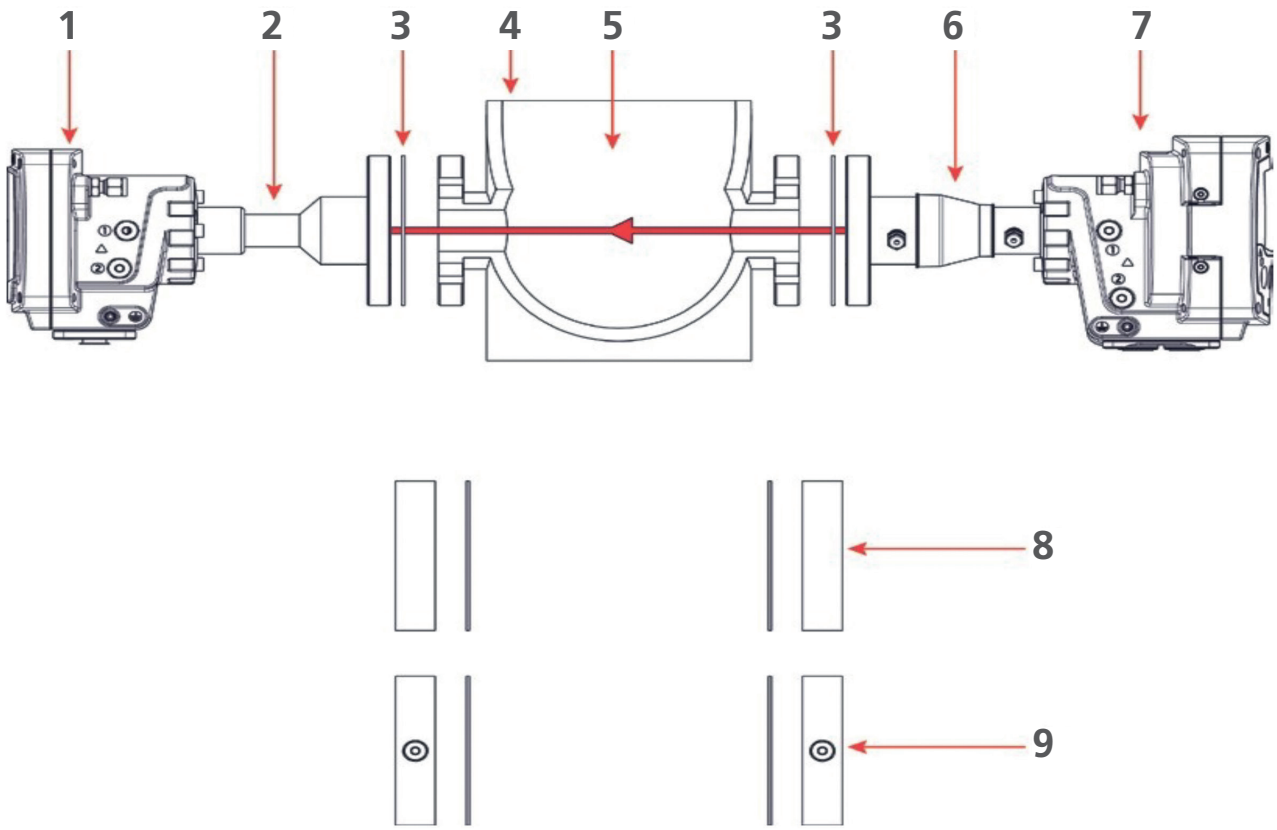
SUPPLEMENTARY CONFIGURATION SHEET

SERVOTOUGH Laser 3 Plus

THE LASER 3 PLUS IS CONFIGURED IN THREE PARTS

1	The analyzer itself, to determine measurement specific related requirements (see page 2)
2	The mounting arrangement, predominantly to determine customer interface requirements (see page 3)
3	Accessories, including purge panels and interconnection cables (see page 4)

The details below show a typical arrangement, including outline descriptions:



1	Receiver	Electronics unit that collects the laser light and has connections for a single cable to return the signal to the transmitter (item 7)
2	Fixed mount	Facilitates quick disconnect, purge and insertion tube requirements
3	Gasket	A process seal
4	Process wall	Pipe, stack, duct etc, will impact measurement pathlength
5	Process gas	Pressure, temperature, dust and gas components determine measurement
6	Adjustable mount	As item 2 (and interchangeable) but adjustable to facilitate laser alignment
7	Transmitter	Electronics unit that provides the laser light, facilitates all signal processing. The Analyser User Interface and all signal connectivity (mA, relays, Modbus) is located at the transmitter
8	Thermal spacer (plus gasket)	Optional - inserted between the mount and the process flange in the event the process flange temperatures exceeds, typically, 135°C
9	Isolation flange (plus gasket)	Optional - inserted between the mount and the process flange in the event the process pressures exceeds, typically, 1.5 BarA

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ANALYZER CONFIGURATION 07931B1

FEATURE	DESCRIPTION OF AVAILABLE OPTIONS		FEATURE NO. IDENTIFICATION									
			1	2	3	4	5	6	7	8	9	10
1; Measurement 1	Process Oxygen		A									
	Combustion Carbon Monoxide		C									
	Environmental Ammonia		F									
	Combustion Oxygen		G									
2; Measurement 1, Range	Ammonia	0-15ppm		B								
		0-25ppm		C								
		0-50ppm		D								
		0-100ppm		E								
	Carbon Monoxide	0-1000ppm		J								
		0-2500ppm		K								
		0-5000ppm		L								
		0-10,000ppm		M								
		0-20,000ppm		N								
		0-50,000ppm		O								
		Custom Range		Z								
	Oxygen (both types)	0-1%		R								
		0-5%		S								
		0-10%		T								
		0-21%		U								
	Process Oxygen only	0-25%		V								
3; Measurement 2	None				X							
	Methane (only selectable with Combustion CO)				E							
4; Measurement 2, Range	None					X						
	Methane	0-5%				S						
5; Reserved	Reserved for future use						X					
6; Reserved	Reserved for future use							X				
7; Area Classification	Safe Area								1			
	ATEX GAS Cat 3G/IECEx Zone 2								2			
	North American Class 1 Division 2								3			
	ATEX DUST Cat 2D/IECEx Zone 21								4			
	General Purpose								9			
8; Path Length* (for path lengths outside 2m to 12m, consult Servomex)	0.1m to 2m	(typically collimated beam)								A		
	2m to 12m	(typically standard optics)								B		
	12m to 25m	(typically divergent optics)								C		
9; Additional Inputs/Outputs	Not Required										1	
	Required - additional 1 x mA output, 2 x mA inputs and 2 x relays)										2	
10; Process Pressure	<= 1.5barA & <=500°C (standard)											A
	> 1.5barA to 16barA & <=500°C											B
	<= 1.5barA & >500°C											D
	> 1.5barA to 16barA & >500°C											E

The following row allows the customer configuration* to be recorded:

Analyzer Configuration ("Talking Part Number")*	07931B1-						X	X				

*Feature 8 is used by Servomex to specify critical laser optical elements.

Order confirmation by 'talking part number' will reflect the numerical selection made by Servomex.

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MOUNTING CONFIGURATION 07931BM

FEATURE	DESCRIPTION OF AVAILABLE OPTIONS	FEATURE NO. IDENTIFICATION								
		1	2	3	4	5	6	7	8	9
1; Isolation Flange	Not Required	X								
	Customer Supplied	C								
	DN50 (pair)	B								
	2" ANSI (pair)	M								
2; Transmitter Mounting Type (for path lengths less than 1m refer to Servomex)	None		X							
	Fixed		A							
	Adjustable		C							
3; Transmitter Flange Size	Not Required			X						
	DN25 (PN10)			A						
	DN50 (PN10)			B						
	1" ANSI (150)			L						
	2" ANSI (150)			M						
	3" ANSI (150)			N						
	4" ANSI (150)			O						
4; Receiver Mounting Type	None				X					
	Fixed				A					
	Adjustable				C					
5; Receiver Flange Size (default is to match the Transmitter flange size)	Not Required					X				
	DN25 (PN10)					A				
	DN50 (PN10)					B				
	1" ANSI (150)					L				
	2" ANSI (150)					M				
	3" ANSI (150)					N				
	4" ANSI (150)					O				
6; Seal Material (Sample wetted in conjunction with mounting options)	None						X			
	Fluorocarbon (Viton 70)						2			
	Solvent Resist (Chemraz 505)						3			
7; Insertion Tubes* (Consult Servomex)	Not Required							X		
	2" ANSI 316SS Narrow Bore (pair)							3		
	2" ANSI 316SS Standard Bore (pair)							4		
	DN50 316SS Standard Bore (pair)							5		
8; Thermal Break (Spacer)	Not Required								X	
	DN25 (PN10)								A	
	DN50 (PN10)								B	
	1" ANSI (150)								L	
	2" ANSI (150)								M	
	3" ANSI (150)								N	
	4" ANSI (150)								O	
9; In Line Span Cell	Not Required									X
	Standard (100mm)									1
	Long (200mm)									2

The following row allows the customer configuration* to be recorded:

Mounting Configuration ("Talking Part Number")*	07931BM-									

*Feature 7 is used by Servomex to specify *additional* elements supplied from our System Group.

Order confirmation by 'talking part number' may not reflect any non 'X' customer selections.

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ACCESSORIES CONFIGURATION 07931BA

FEATURE	DESCRIPTION OF AVAILABLE OPTIONS	FEATURE NO. IDENTIFICATION											
		1	2	3	4	5	6	7	8	9	10	11	12
1; Analyser Purge: Window Purge	None Instrument Air Nitrogen	0 A N											
2; Analyser Purge: Measurement Purge	None Instrument Air Nitrogen		0 A N										
3; Analyser Purge: Environmental Purge	None Instrument Air Nitrogen			0 A N									
4; Purge Adaptor kits (1/8" Compression to…)	None Metric (6mm Compression) Imperial (1/4" Compression)				0 M I								
5; Purge Panel* To regulate purge supplies to: (Consult Servomex)	Not Required Windows only Windows and Cal Cell Windows and case Windows, case and Cal Cell Windows, case, laser and detector All elements (Full Purge) Full purge plus isolation flange					C 1 2 3 4 5 6 7							
6; Power	24 V dc (Standard) 100-240 V / 50-60 Hz External PSU (not suitable for ATEX dust hazardous area)						D M						
7; Manuals: User/Installation	English							E					
8; Manuals: Service	Not Required English								X E				
9; Alignment Tool	Not Required Short pathlength (<5m) Long pathlength(>5m) Combined (long & short)									X A B C			
10; Calibration Cell Kit (cell, cable, stand and process blank)	Not Required 250mm 500mm										0 2 3		
11; Interconnection Cable	Customer own supply Servomex Standard											C S	
12; Interconnection Cable Length (of Servomex supply only)	Not Required 5m interconnection cable 10m interconnection cable 15m interconnection cable 20m interconnection cable 25m interconnection cable 30m interconnection cable 40m interconnection cable 50m interconnection cable												0 5 10 15 20 25 30 40 50

The following row allows the customer configuration* to be recorded:

Accessories Configuration ("Talking Part Number")*	07931BA-							E					

*Feature 5 is used by Servomex to specify *additional* elements supplied from our System Group.

Order confirmation by 'talking part number' may not reflect any non 'C' customer selections.

WE'RE READY TO HELP

WHATEVER YOUR GAS ANALYSIS REQUIREMENTS, WHEREVER YOU ARE

PBL3PConfig Rev.0 Date: 08/21

These analyzers are not intended for any form of use on humans and are not medical devices as described in the Medical Devices Directive 93/42EEC.

Please note: *Whilst every effort has been made to ensure accuracy, no responsibility can be accepted for errors and omissions.*
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