



SERVOTOUGH Fluegas (2700)

For maximum efficiency and fuel cost savings, the SERVOTOUGH Fluegas (2700) is a high performance gas analyser ideal for monitoring the oxygen and combustibles in a wide variety of combustion processes. The Fluegas is designed to meet the needs of power generation, process heaters, thermal crackers and incinerators, where it is your perfect partner for harsh environments, high temperatures and dusty conditions .

FEATURES

- **Close coupled, low flow extracted volume design** - compared to in-situ analysers, the Fluegas is not subject to the harsh process conditions, ensuring a lower cost of ownership while simultaneously delivering fast, stable and highly reliable O₂ and CO_e measurements
- **Servomex zirconium oxide cell** - an accurate, long life, low drift, and highly robust O₂ measurement, able to withstand reducing process conditions
- **Thick Film Catalytic Sensors** - a sensitive, fast response, and reliable CO_e measurement that responds to CO_e even in low process O₂ conditions
- **Safety First** - protective, BASEEFA tested flametraps as standard prevent possible ignition of flue gases in fuel rich conditions
- **Highly Flexible** - wide variety of probes, mounting flanges, calibration and air panels available
- **Configurations** - for safe or hazardous area use

APPLICATIONS

- Process heaters
- Thermal crackers
- Incinerators
- Power generation boilers
- High temperatures
- High dust loading

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KEY FEATURES

Close coupled, low flow extractive design

The close coupled and low flow extractive design of the SERVOTOUGH Fluegas delivers market leading sensor life, reliability and stability. By extracting the sample at low flow rates, as oppose to measuring the sample in the process stream, the Fluegas is not vulnerable to the effects of the harsh process environment. In addition, the unique low flow rate design ensures the probe and filters are not compromised by dust and particulates that regularly affect high flow rate extractive analysers. All these benefits are achieved without compromising the response time of the measurement

Servomex Zirconium Oxide cell

Our Zirconium Oxide cell, designed specifically for the combustion analysis market, is highly robust with excellent resistance to thermal and mechanical shock, and unlike many others available, it is resistant even in reducing process conditions, offering instant recovery and operation when process conditions return to normal. Acknowledged as one of the most reliable on the market, it offers world class accuracy and stability together with extended calibration intervals.

Thick Film Catalytic Sensors

Combined with the measurement of O₂, the measurement of COe is a major advantage in improving combustion efficiency. Our Thick Film Catalytic Sensors offer fast response and high sensitivity to combustible gas breakthrough, the first sign of incomplete combustion. By reducing O₂ levels close to those of incomplete combustion, significant fuel savings and a reduction in NOx emissions can be readily achieved.

For added piece of mind and continuous operational performance, all our catalytic sensors are supplied with excess auxiliary air. Unlike traditional pellistor type measurements, this allows COe measurements even if the flue gas O₂ levels drop significantly below that required for complete combustion.

Two sensor versions are available depending on application usage; a high sensitivity version for natural and clean gas applications, and a sulphur resistant version for sour gas and sulphur resistant fuels.

Safety First

During process upset, start up and shut down conditions, there is always a chance that a flue rich mixture is temporarily in the process. To help protect against the Fluegas being a source of ignition to these flue rich gases, the Fluegas has in built flame traps that prevents gas ignition within the hot Zirconium Oxide cell passing back to the process flue.

HAZARDOUS AREA APPROVALS

Control Unit:

Approved as EEx nC IIC T5 (-20°C < Ta < +55°C) for ATEX Group II, Category 3 Gas and Dust. Hazardous Atmospheres T75°C (BASEEFA No. BAS02ATEX3205)

Factory Mutual - FMRC approved as non-incendive for:

Class I, Div. 2, Groups A, B, C & D
Class II, Div. 2, Groups F & G
Class III, Div. 1 & 2
Enclosure Type 4X
T5. Ambient Temperature 55°C max.

Canadian Standards Association - CSA suitable for use in:

Class I, Div. 2, Groups A, B, C & D
Class II, Div. 1, Groups E, F & G
Class III, Div. 1
T5. Ambient Temperature 55°C max. Enclosure Type 4X

Sensor Head:

Use purge for installation in hazardous locations
EUROPE - ATEX Group II, Category 3 Gases (Zone 2) when fitted with a suitable purge
USA - Class I and II, Div. 2 and Class III, Div. 1 and 2 when fitted with a suitable purge

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EC DIRECTIVE COMPLIANCE

The SERVOTOUGH Fluegas is in compliance with:

Low Voltage Directive

EMC Directive

And all other applicable Directives.

REGIONAL APPROVALS

China Pattern Approval.

TÜV tested and notification by BMU to the requirements of BImSchV

13 (large combustion plant)

and 17 (waste incineration and similar processes).

GOST Pattern Approval for Russia.

UK MCERTS Approval.

ELECTRICAL SAFETY

Electrical safety to IEC 61010-1

The product is rated for "Overvoltage Category II"

The product is rated for "Pollution Degree 2"

Electrical Safety USA/Canada

Complies with FM approval class number 3810.

CAN/CSA - C22.2 No. 1010.1-92.

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SPECIFICATIONS

Gas measured:	Oxygen (O ₂)	Combustibles (COe-Carbon Monoxide Equivalent)		
TECHNOLOGY	Zirconium oxide (zirconia)	Patented thick film catalytic sensor		
Typical applications:	All combustion	High Sensitivity Natural Gas, Light Oil ¹	Sulphur Resistant Sour Gas, Heavy Oils, Coal Incinerators ²	
PERFORMANCE				
Intrinsic error (accuracy):	±1% of reading or ±0.1% O ₂ *	±25ppm or ±5% of reading *	±75ppm or ±5% of reading *	
Resolution options:	0.01% O ₂	1ppm recommended	10ppm recommended	
Drift (zero):	Per 3 months; <0.5% of range or 0.05% O ₂ *	<25ppm/week	<35ppm/week	
Display range:	0.01% to 25%	0ppm to 10,000ppm		
Min. recommended range:	0-1% O ₂ ♦	0-500ppm		
Max. COe in stream:	Not applicable	6000ppm		
Linearity:	<0.1% O ₂	<3% FSR		
Repeatability:	<0.1% O ₂	<1% FSR		
Recommended Calibration frequency:	12 months	1 month		
Cross sensitivity: (under normal plant operating conditions)	No significant effect	Effect of common combustible flue gases per 1000 ppm		
		SO ₂	<30ppm	<100ppm
		CH ₄	<10ppm	<50ppm
		H ₂	<2500ppm	<2500ppm
SIGNAL INPUTS/OUTPUTS				
Analogue output:	One configurable isolated 0/4-20mA per measurement (recommended impedance 600Ω or less, 1kΩ max) O ₂ output configurable from 0-1% min. to 0-25% max. O ₂ in 1% steps COe output configurable from 0-500ppm to 0-15,000ppm (measurement range remains as above)			
Alarms & relays:	Four SPCO relays (250V ac/3A or 28V dc/1A max), configurable for Concentration Alarms, Faults, In Calibration, In Blowback, and solenoid valves for blowback and autocalibration			
Digital inputs:	Two non-isolated digital inputs provided to remotely initiate autocalibration and perform blowback			

¹ Fuels with sulphur contents <1%

² Fuels with sulphur contents >1% (consult Servomex for fuels with sulphur content >2.5%)

♦ below 1% display shows low oxygen level warning

* whichever is greater

The performance specification has been written, and verified, in accordance with the international standard IEC 1207-1:1994 "Expression of performance of gas analysers".

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SPECIFICATIONS

PHYSICAL

Ingress protection:

Weight:

Dimensions, WxDxH:

Mounting:

Max altitude:

Ambient temperature:

Control unit:

Sensor head:

IP66 / NEMA 4X

Control unit: <11kg (<24.3lbs) Sensor head: <17kg (<37.5lbs) - Dual transducer

Control unit: 391 x 167 x 260mm (15.4" x 6.6" x 10.3")

Sensor head: 301 x 330 x 256mm (11.9" x 13.0" x 10.1")

Control unit: Wall, 19" rack and panel mounting

Sensor head: Choice of mounting flanges and adaptors

2000m (6500 feet)

Operation

-10°C to +55°C (+14°F to +131°F)

-20°C to +70°C (-4°F to +158°F)

Storage

-20°C to +55°C (-4°F to +131°F)

-30°C to +80°C (-22°F to +176°F)

INTERCONNECTING CABLE REQUIREMENTS

	Cross Section	Max.
<u>Oxygen only</u>		
3 twisted pairs with overall screen*	1.0mm ²	100m
	1.5mm ²	150m
	2.5mm ²	300m

Combustibles only

6 twisted pairs with individual and overall screens*	100m
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Oxygen and Combustibles

9 twisted pairs with individual and overall screens*	100m
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*Maximum loop resistance of 4Ω is required for the heater connections and use cables with a minimum of 0.5mm² cross section

Note: Add 1 extra twisted pair if the optional sensor head temperature readout is required to be displayed by the Control Unit.

Part numbers for supplier Alpha Wire Company (www.alphawire.com):

Oxygen only M9700040

Combustibles only M9700080

Oxygen and combustibles M9700120

POWER REQUIREMENTS

Voltage: 100-120V ac, 50/60 Hz or 220-240V ac, 50/60 Hz

Rated Power: Control Unit 250VA, Sensor Head 600VA

Note: Control Unit and Sensor Head are powered separately.

Control Unit power supply is fixed at time of order, but is field configurable. Sensor Head supply voltage is factory set.

SENSOR HEAD COMPRESSED AIR REQUIREMENTS

Aspirator Air:

Pressure: 3.5psig typical (3 to 5psig - 0.2 to 0.3barg)

Flow: <1.5 litres/min typical

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Analysar controller	The analyser consists of a sensor head and a control unit which includes a backlit liquid crystal display (2 line x 16 characters) and an eight button keypad. The sensor head is suitable for installation in non-hazardous areas, (hazardous area available when used with suitable purge). There are four versions of the control unit available: GEN for installation in non-hazardous areas. EU2 for installation in European Zone 2 hazardous areas. FM2 for installation in US Class I & II, Division 2 and Class III, Division 1 & 2 hazardous areas CSA for installation in Canadian Class I & II, Division 2 and Class III, Division 1 & 2 hazardous areas.
Measurement and supply voltage:	The unit can be supplied as an oxygen only measurement, combustibles (COe) only measurement, or an oxygen and combustibles measurement analyser. The analyser can also be supplied with specially coated pcbs for use in very humid environments. 110 and 220V ac available.
Combustible sensors	For natural gas and light oil applications with fuels with sulphur contents <1% our high sensitivity combustibles sensor is recommended. For sour gas, heavy oils, coal and incinerators with fuels with sulphur content >1% our sulphur resistant combustible sensor is recommended. For applications with fuels >2.5% sulphur refer to Servomex.
Sample probes:	A range of sample probes are available for use in different sampling environments. For samples with a relatively low dust loading (<0.2 g/m ³) open ended probes are available in stainless steel, high temperature alloy, and ceramic materials suitable for a range of temperatures up to 1750°C. Filtered probes are also available for samples with higher dust loading (up to 20 g/m ³) and temperatures below 1500°C. The stainless steel filtered probe can also be supplied with additional mechanical support and shroud. (Note: for higher dust loadings and temperatures refer to Servomex).
Internal filter:	The analyser is supplied fitted with flame arrestors and an internal filter as standard.
Electrical threaded entries:	Choose from ¾" NPT, M20, M25, PG13.5 or PG21 entries. Select entry size to suit cables and glands used.
Sensor head enclosure:	The analyser sensor head is fitted as standard with a breather port to prevent pressurisation of the enclosure. These can be replaced with fittings for the addition of a corrosive or PZ purge for the sensor head and terminal box, if required. The oxygen only analyser can also be supplied equipped to use nitrogen instead of compressed air to power the internal aspirator.
Sensor head mounting option:	There are six sensor head mounting options: A standard mounting option, a probe retention option which allows the sensor head to be removed whilst the sample probe is retained within the flue, a thermal spacer which separates the sensor head from the flue wall with a high surface temperature (350°C to 500°C), a stand off flange which increases the separation between the sensor head and the heat radiation from the flue wall (350°C to 500°C), a combined thermal spacer and probe retention and a combined probe retention and stand-off flange.
Adaptor flange option:	The sensor head is supplied with an equivalent PCD 4" ANSI 150lbs flange as standard. Adaptors are available to suit other flange sizes. The analyser is not designed to withstand 150lbs pressure. The flue pressure should be a maximum of 5psig.
Control unit monitoring:	The control unit is available for either wall or rack/panel mounting. The rack/panel mounting controller is supplied with an additional panel.
Control unit enclosure option:	The analyser can be fitted with blanking plugs, a breather port or fittings to allow the use of a corrosive or PZ type purge system.
Utilities:	A utilities unit can be configured with one or more of the following:- Aspirator air set - provides filtration and pressure regulation of the compressed air for the aspirator in the analyser. Autocalibration - provides the necessary components to allow automatic calibration of the analyser with calibration gases (not supplied) Manual calibration - provides the necessary components to allow manual calibration of the analyser with calibration gases (not supplied) Blowback - provides the necessary components to allow the blowback of the sample probe and internal filter When nitrogen aspiration is used the calibration versions of the utilities units cannot be used.
Pump unit:	Recommended with N ₂ aspiration unless other suitable device made available separately. Consult Servomex.

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Analysar controller:	Safe Area Hazardous Area European Cat 3, Zone 2 Hazardous Area FM Div. 2 Hazardous Area CSA Div. 2	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>																																																												
UK MCERTS:	Approval required Not required	<input type="checkbox"/> <input type="checkbox"/>																																																												
Measurement and supply voltage:	Uncoated pcbs <input type="checkbox"/> 110-120V <input type="checkbox"/> 220-240V Coated pcbs <input type="checkbox"/> 110-120V <input type="checkbox"/> 220-240V O ₂ <input type="checkbox"/> Combustibles only <input type="checkbox"/> Oxygen & combustibles <input type="checkbox"/>																																																													
Combustible Sensor:	High sensitivity <input type="checkbox"/>	Sulphur resistant <input type="checkbox"/>																																																												
Aspirator supply:	Air <input type="checkbox"/>	Nitrogen <input type="checkbox"/>																																																												
Sample probes:	None <input type="checkbox"/> SS sample probe, unsupported, open ended <700°C/1292°F SS sample probe, unsupported, filtered <700°C/1292°F SS sample probe, supported, filtered with shroud <700°C/1292°F SS sample probe, supported, dual filtered, with shroud <700°C/1292°F High temperature alloy, unsupported, open ended, <1000°C/1832°F High temperature alloy, unsupported, filtered, <1000°C/1832°F Ceramic, sample probe, open ended, <1750°C/3182°F Ceramic, sample probe, unsupported, filtered, <1500°C/2732°F * Hastelloy, sample probe, unsupported, open Non standard probes * <input type="checkbox"/>	<table><tr><th colspan="6">Length (m)</th></tr><tr><th>0.5</th><th>1.0</th><th>1.5</th><th>2.0</th><th>2.5</th><th>3.0</th></tr><tr><td>✓</td><td>✓</td><td>✓</td><td></td><td></td><td></td></tr><tr><td>✓</td><td>✓</td><td>✓</td><td></td><td></td><td></td></tr><tr><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td></tr><tr><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td>✓</td></tr><tr><td>✓</td><td>✓</td><td>✓</td><td>✓</td><td></td><td></td></tr><tr><td>✓</td><td>✓</td><td>✓</td><td></td><td></td><td></td></tr><tr><td>✓</td><td>✓</td><td></td><td></td><td></td><td></td></tr><tr><td>✓</td><td>✓</td><td>✓</td><td></td><td></td><td></td></tr></table> <div>*Special, consult Servomex</div>	Length (m)						0.5	1.0	1.5	2.0	2.5	3.0	✓	✓	✓				✓	✓	✓				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓				✓	✓					✓	✓	✓			
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Internal filter:	Internal flame arrestors and internal sample filter	<input checked="" type="checkbox"/>																																																												
Electrical threaded entries:	¾" NPT (O ₂ and COe) M20 (O ₂ or COe) M25 (O ₂ and COe) PG 13.5 (O ₂ or COe) PG21 (O ₂ and COe)	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>																																																												
Sensor head enclosure:	Breather port Purge fittings	<input type="checkbox"/> <input type="checkbox"/>																																																												
Sensor head mounting option:	Standard (4" ANSI 150lbs) Probe retention (excluding supported probes) Thermal spacer (excluding supported probes) Probe retention & thermal spacer (excluding supported probes) High temperature stand off (excluding supported probes) High temperature stand off & probe retention (excluding supported probes)	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>																																																												
Adaptor flange option:	None (4" ANSI 150lbs) 3" ANSI 150lbs equivalent DIN 65 equivalent DIN 80 equivalent JIS 65 equivalent JIS 80 equivalent Weld-on flange complete with studs (4" ANSI 150lbs equivalent) Model 700B/N to 2700 adaptor flange (excluding high temperature stand off) Thermox to 2700 adaptor flange (excluding supported probes)	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>																																																												
Control unit monitoring:	Wall mounted Rack or panel mounted	<input type="checkbox"/> <input type="checkbox"/>																																																												
Control unit enclosure option:	Blanking plugs only Breather port Purge fittings	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>																																																												

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Utilities:	None <input type="checkbox"/> Air set, single/dual <input type="checkbox"/> Autocal air set <input type="checkbox"/> Autocal and blowback <input type="checkbox"/> Manual cal, single/dual <input type="checkbox"/>	single <input type="checkbox"/> single <input type="checkbox"/> single <input type="checkbox"/> single <input type="checkbox"/>	dual <input type="checkbox"/> dual <input type="checkbox"/> dual <input type="checkbox"/> dual <input type="checkbox"/>
Pump unit:	110V ac pump <input type="checkbox"/> 240V ac pump <input type="checkbox"/>	Consult Servomex <input type="checkbox"/> Consult Servomex <input type="checkbox"/>	
Quickstart & Installation manual	The 2700 Analyser is supplied with a Quickstart™ and installation manual. English <input type="checkbox"/> Spanish <input type="checkbox"/> French <input type="checkbox"/> Chinese <input type="checkbox"/> German <input type="checkbox"/> Russian <input type="checkbox"/>		
Service manual	A service manual containing technical descriptions, fault diagnosis information, parts removal, refitting and test instructions, tool and test equipment lists, and electrical drawings is available. It is intended for use by Servomex trained service personnel. None <input type="checkbox"/> English <input type="checkbox"/>		
Default software interface language	The analyser is supplied with English, French and German software installed. The active language is user selectable. The default software interface language will be active when the analyser is shipped. English <input type="checkbox"/> French <input type="checkbox"/> German <input type="checkbox"/>		

CALIBRATION GAS REQUIREMENTS

Calibration gas requirements:

Pressure: 1barg (15psig) Flow: 600ml/min typical

Calibration gas composition	Oxygen sensor (Zr)	Combustibles sensor (Tfx)
Air (20.95% O ₂ in nitrogen) Air must be free from combustible gases (eg CO, H ₂ , hydrocarbons, etc)	Span (high)	Zero
0.3% O ₂ in nitrogen Gas composition can be between 0.25% and 2.5% O ₂ in Nitrogen	Zero (low)	N/A
500ppm carbon monoxide in air Gas composition can be between 500ppm and 1000ppm in air	N/A	Span

SAMPLE WETTED MATERIALS

Item	Materials	Item	Materials
Sensor head	Stainless steel (303 and 316), gasket sealing material (Klinger grade SLS 150)	Unfiltered sample probe (<700°C)	Stainless steel (316)
Oxygen sensor	Stainless steel (310 and 316), zirconia, platinum, alumina, Ni/Fe/Cr alloy, high temperature sealing glasses	Filtered sample probe (<700°C)	Stainless steel (316), stainless steel (310), silicon carbide
Combustibles sensor	Stainless steel (316), platinum, platinum/iridium, zirconia, alumina, corrosion resistant glass	Unfiltered sample probe (700°C-1000°C)	Haynes alloy 556, stainless steel (316)
		Filtered sample probe (700°C-1000°C)	Stainless steel (310), Haynes alloy 556, Stainless steel (316), silicon carbide
		High temperature sample probe (<1750°C)	High temperature ceramic, stainless steel (316)

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SYSTEM RESPONSE TIMES T_{90} (typical)

Measurement	O ₂ only	Combustibles COe only
<700°C, 1m long, stainless steel sample probe with sample filter:	<17s	<27s
<1000°C, 1m long, H556 alloy sample probe with sample filter:	<17s	<27s
<1750°C, 1m long, ceramic sample probe with sample filter:	<20s	<30s

SERVICE & SUPPORT

For new installations and replacement of older Servomex and competitor products, we will work with you to develop a bespoke service and support package, ensuring full measurement availability and plant operation within your timescales and budget.



SERVOSPARES

To ensure the integrity and optimum performance of your Servomex product, we recommend fitting only factory authorised spare parts. This is particularly important for all hazardous area certified products.



SERVOSURE

Ensure your Servomex analyser is properly commissioned and delivers optimum performance with a maintenance contract, service programme and extended warranty.



SERVOTECH

Make the most of your Servomex gas analyser by attending a training course at one of our training centres in Europe, USA or Asia or on your own site.



SERVOHELP

Whether you have a simple question or complex process challenge, our local offices and global support network are here to help you.

SERVOTOUGH Fluegas (2700)

ACCESSORIES AND STANDARD PROBE OPTIONS

Utilities unit specification

Temperature

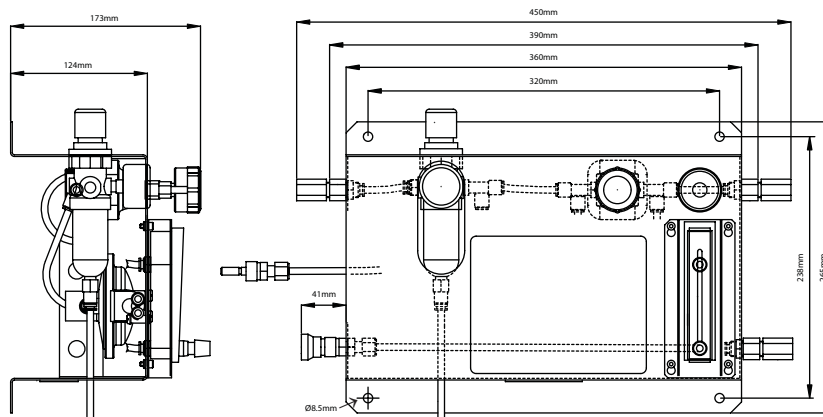
Operating: -10°C to +50°C (+14°F to +122°F)
Storage: -20°C to +55°C (-4°F to +131°F)

Compressed air & blowback air requirements:

Pressure: 1 to 5barg (15 to 72.5psig)
Flow: 4.5 to 10 litres/min
Instrument grade compressed air*, free of oil, water & dirt

Utilities units

02730701 Aspirator air set, single or dual sensor
W 93mm x D 99mm x H 165mm
(W 3.7" x D 3.9" x H 6.5"), <400gms (<1.0lbs)
02730731 Aspirator air set and manual calibration, single or dual sensors
W 390mm x D 174mm x H 265mm
(W 15.5" x D 6.8" x H 10.4"), <4.5Kgs (<10lbs)

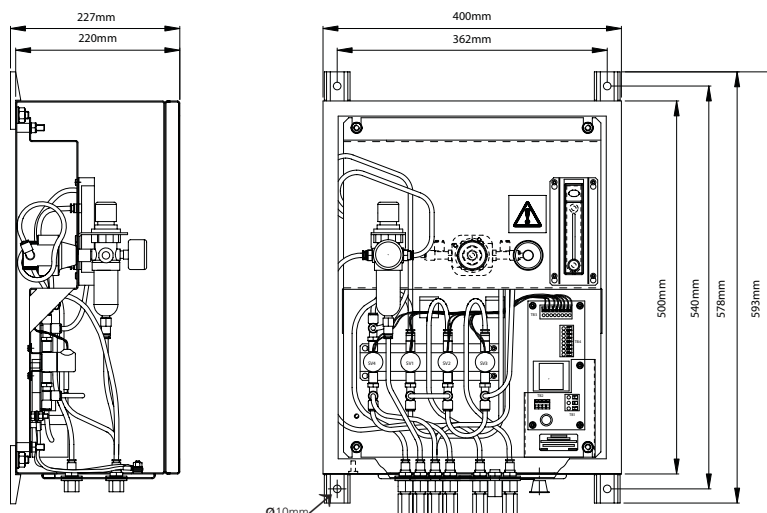


Aspirator air set and automatic calibration units **

02730711 (single sensor), 02730721
(single sensor, with blowback), 02730713C (dual sensor),
02730723C (dual sensor, with blowback)
W 400mm x D 220mm x H 500mm
(W 16" x D 9" x H 20"), <16Kgs (<35lbs)

Ingress protection: IP65/NEMA 12 (Auto cal. units only)

Power supply: 100V ac, 50/60Hz <20VA; 110-120V ac,
50/60Hz <20VA or 220-240V ac,
50/60Hz <20VA (field configurable)



The Nickel plated brass bulkhead connections are suitable for 1/4" NPT and BSP male fittings & tubing. Internal components are brass, plastic fittings and tubing.

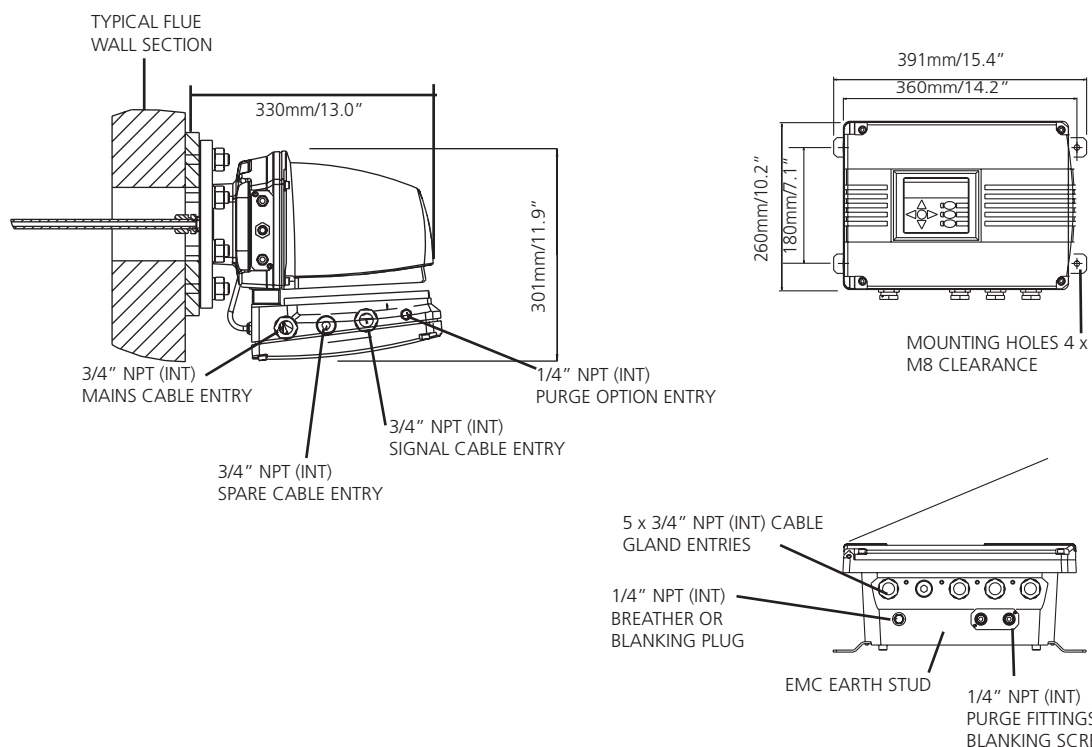
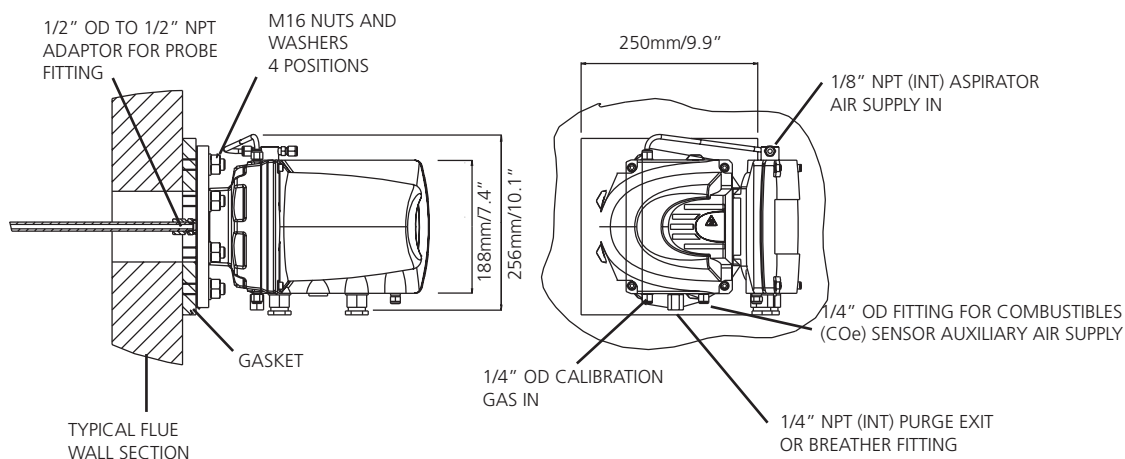
* Or nitrogen, if analyser equipped for nitrogen aspiration (single measurement oxygen units only)

** The autocalibration versions of the utility units comply with the "CE Marking Directive" 93/68/EEC

SERVOTOUGH Fluegas (2700)

DIMENSIONS

TYPICAL ANALYSER MOUNTING ORIENTATION WITH 4" ANSI FLANGE. OTHER FLANGES ARE AVAILABLE













Dimensions shown in millimetres

SERVICE ACCESS REQUIRED FOR DOOR TO BE OPENED:
365mm/14.4" IN FRONT
250mm/9.9" TO LEFT HAND SIDE

SERVOTOUGH Fluegas (2700)

Servomex range of products for the Hydrocarbon Processing Industry

	 SERVOMEX EMISSIONS ANALYSERS	 SERVOMEX COMBUSTION ANALYSERS	 SERVOMEX PROCESS ANALYSERS
SERVOTOUGH (Hazardous Area)	 SERVOTOUGH 2500 - SERVOTOUGH SpectraExact 2900 - SERVOTOUGH Laser	 SERVOTOUGH 2700 - SERVOTOUGH Fluegas 2900 - SERVOTOUGH Laser	 SERVOTOUGH 1900 Digital - SERVOTOUGH Oxy 1900 IR - SERVOTOUGH Spectra 2200 - SERVOTOUGH OxyExact 2500 - SERVOTOUGH SpectraExact 2900 - SERVOTOUGH Laser 1800
SERVOPRO (Safe Area)	 SERVOPRO 4900		 SERVOPRO 5400 - SERVOPRO MultiExact 4100
SERVOFLEX (Portables)		 SERVOFLEX 5100 i.s - SERVOFLEX Micro i.s	 SERVOFLEX 5100 i.s - SERVOFLEX Micro i.s 5100 Marine - SERVOFLEX MicroMarine

BUSINESS CENTRES

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