

SERVOMEX K1550

THERMAL CONDUCTIVITY ANALYSER

is designed to measure hydrogen, helium, methane, neon, argon and carbon dioxide in safe or hazardous locations

- Maintenance free sensor
- Stable and highly sensitive
- Rapid response
- Hazardous area option*
- Programmable alarms and analogue outputs
- Applications include:
Air Separation (Purity): (H₂, He, CH₄ CO₂, Ar or Ne)
Ammonia Plants (Nitrogen/Hydrogen measurements)
Steel Plants (H₂ in top gas)



SPECIFICATION

Gas:	Hydrogen	Helium	Argon	Neon	Methane	Carbon Dioxide
PERFORMANCE						
Minimum range / % :	0-1	0-5	0-10	0-10	0-10	0-10
Maximum range/ % :	0-100	0-100	0-100	0-100	0-100	0-100
Accuracy / % fsd:	± 1	± 1	± 1	± 1	± 1	± 1
Drift / Month :	< 1% fsd	< 1% fsd	< 1% fsd	< 1% fsd	< 1% fsd	< 1% fsd
Response time (T ₉₀) :	4 secs	4 secs	20 secs	20 secs	20 secs	20 secs
SIGNAL OUTPUT						
Signal output:	one 4-20mA User programmable					
Alarms:	two alarms, rated 48v a.c. or d.c. at 0.5 amps					
PHYSICAL						
Ambient Temperature / °C:	-5 °C to +40 °C					
Dimensions (W x D x H):	Control Unit:		96mm x 153 mm x 144mm - Ingress protection = IP40			
	Transducer Unit:		175mm x 100 mm x 125mm - Ingress protection = IP65			
Weight:	3kg (6.6 lbs)					

- * The transducer unit is certified EEx d IIB. When installed in a hazardous area a zener barrier (supplied with K1550FX) must be fitted between the transducer unit and the control unit.
- A control unit suitable for hazardous area use is available. Please contact Servomex for further details.

Enquiry & Ordering Information	
To Specify the analyser you require, enter your details below, tick the options you require and post or fax to your local Servomex company, agent, or representative.	
Name:	<input type="text"/>
Company	<input type="text"/>
Address:	<input type="text"/>
	<input type="text"/>
Order/Enquiry Number	<input type="text"/>

Please send me details of planned maintenance services & recommended spares

Ordering Information	
K1550 R Safe Area Only	<input type="checkbox"/>
K1550 FX Hazardous Area Model	<input type="checkbox"/>
Please tick box if there is a requirement not covered below (i.e. different range required). <input type="checkbox"/>	

Measured Gas	
Hydrogen	<input type="checkbox"/>
Helium	<input type="checkbox"/>
Nitrogen	<input type="checkbox"/>
Carbon Dioxide	<input type="checkbox"/>
Argon	<input type="checkbox"/>
Xenon	<input type="checkbox"/>
Neon	<input type="checkbox"/>
Other	<input type="checkbox"/>

Background Gas	
Hydrogen	<input type="checkbox"/>
Helium	<input type="checkbox"/>
Nitrogen	<input type="checkbox"/>
Carbon Dioxide	<input type="checkbox"/>
Argon	<input type="checkbox"/>
Xenon	<input type="checkbox"/>
Neon	<input type="checkbox"/>
Methane	<input type="checkbox"/>
Air	<input type="checkbox"/>
Other	<input type="checkbox"/>

Display Range (%)	
0 to 100	<input type="checkbox"/>
0 to 20	<input type="checkbox"/>
0 to 5 (Hydrogen & Helium only)	<input type="checkbox"/>
0 to 1 (Hydrogen only)	<input type="checkbox"/>
80 to 100	<input type="checkbox"/>
95 to 100 (Hydrogen & Helium only)	<input type="checkbox"/>
99 to 100 (Hydrogen only)	<input type="checkbox"/>
Other	<input type="checkbox"/>

Sensor	
Safe Area Mounting	<input type="checkbox"/>
Hazardous Area with Zener Barrier Interface	<input type="checkbox"/>

Sensor Block, Piping and Fittings material	
Stainless Steel	<input checked="" type="checkbox"/>

Analogue Output	
4 - 20mA	<input checked="" type="checkbox"/>

Supply Voltage	
110/120v - 50/60Hz	<input type="checkbox"/>
220/240v - 50/60Hz	<input type="checkbox"/>

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Architecture

K1550 R
K1550 FX

Safe Area Only
Hazardous Area Transducer Unit (Ex sd IIB + H₂ T6) connected to a control unit in a safe area via an IS interface.

A control unit suitable for hazardous area use is available. Please contact Servomex for details.

Power Supply

110/220V or 220/240V ac, 50/60 Hz
Power Consumption 12 VA

Sample Condition

Sample Flow: between 100 and 300 ml/min for optimum performance
 Sample Temperature: -10 °C to +40 °C (non condensing)
 Sample Pressure: set by vent pressure but nominally atmosphere
 Sample Connections: inlet and outlet - captive seal compression fittings suitable for 1/4" (6mm) o.d. diameter

EC Directive Compliance

The Servomex K1550 series analysers comply with the Low Voltage Directive 73/23/EEC and the EMC Directive 89/336/EEC (as amended by Directive 92/31/EEC), both as amended by Directive 93/68/EEC.

They conform to the following harmonised European standards for product safety:

EN 61010-1: Safety requirements for electrical equipment for measurement, control and laboratory use.

They conform to the following harmonised European standards for electromagnetic compatibility:

EN 50081-1: Generic emission standard, part 1, residential, commercial and light industry.

EN 50082-1: Generic immunity standard, part 1, residential, commercial and light industry.

Visit www.servomex.com for technical data sheets, application and technology information for all Servomex analysers.

Servomex has a policy of constant product improvement and therefore reserves the right to change specifications without notice.



Certificate No. Q05166
BS EN ISO 9001



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