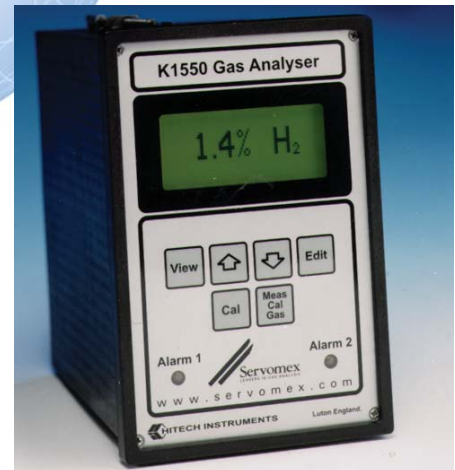


SERVOMEX K1550

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: 180mm x 100 mm x 180mm - 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:
Company:
Address:

Order/Enquiry Number:

Please send me details of planned maintenance services & recommended spares

Ordering Information

K1550 R Safe Area Only
K1550 FX Hazardous Area Model
Please tick box if there is a requirement not covered below (i.e. different range required).

Measured Gas

Hydrogen
Helium
Nitrogen
Carbon Dioxide
Argon
Xenon
Neon
Other

Background Gas

Hydrogen
Helium
Nitrogen
Carbon Dioxide
Argon
Xenon
Neon
Methane
Air
Other

Display Range (%)

0 to 100
0 to 20
0 to 5 (Hydrogen & Helium only)
0 to 1 (Hydrogen only)
80 to 100
95 to 100 (Hydrogen & Helium only)
99 to 100 (Hydrogen only)
Other

Sensor

Safe Area Mounting
Hazardous Area with Zener Barrier Interface

Sensor Block, Piping and Fittings material

Stainless Steel

Analogue Output

4 - 20mA

Supply Voltage

110/120v - 50/60Hz
220/240v - 50/60Hz

EAME (Europe, Africa and Middle East):

Servomex Group Limited, Jarvis Brook, Crowborough, East Sussex, TN6 3DU, England
Servomex GmbH, Münsterstraße 5, 59065 Hamm, Germany
Servomex S.A., 8 Rue Proudhon, B.P. 50, 93212 St Denis La Plaine Cedex, France
Servomex B.V., Stephensonstraat 20, 2723 RN Zoetermeer, Netherlands
Servomex Group Limited, SAIF Zone, Executive Suites Z1-56, PO Box 8962, Sharjah, UAE.

AMERICAS:

Servomex Company Inc., 525 Julie Rivers, Suite 185, Sugar Land, Texas 77478-2847, USA.

ASIA PACIFIC:

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Servomex Asia Pacific Ltd, 7F, No.88, Sec. 6, Chung Shan N. Rd., Taipei, Taiwan
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Global email: info@servomex.com

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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



Certificate No. EMS82701
BS EN ISO 14001



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