

k4000^{ng}* SERIES

Kontrol Analytik
trace gas analyzer

- Trace gas measurement ppb/ppm
- Stand-alone system, no need for third party software
- Compact rackmount 4U configuration
- Electronic platform for easy operation
- Internet enabled for remote control and monitoring



SPECIFICATION

Detectors types:	Plasma emission detector,* used with Argon or Helium carrier gas
Gas lines:	All stainless steel, passivated or electro-polished
LDL:	As low as 1ppb, application dependent
Repeatability:	±1% to ±5% FS based on configuration and specific impurities
Sample flow:	0-50 sccm (application dependent)
Sample pressure:	10-20psig (application dependent)
Carrier flow:	Typically 30-60 sccm (full range 10-175 sccm)
Carrier pressure:	100psig recommended
Power consumption:	150 watts (application dependent)
Power supply:	115V ac, 50-60Hz or 220V ac, 50-60Hz
Weight:	25 to 60lbs (11 to 27Kg)
Dimensions (W x D x H):	K4000 ^{ng} chassis or slave chassis: Standard rack-mount 4U enclosure: 19" x 24" x 7" (482mm x 600mm x 177mm)

* Patents pending

The K4000^{ng} is a basic mainframe that is customized for your application. The analytical section can be configured to perform parallel analysis. Many applications will be satisfied by a single 4U rack analyser configuration, making the k4000^{ng} the most compact solution available. The most popular applications are shown in the table below.

Impurities	Background Gas				
	H ₂	O ₂	N ₂	Ar	He
H ₂	×	●	●	●	●
O ₂	●	×	●	●	●
N ₂	●	●	×	●	●
Ar	●	●	●	×	●
CH ₄	●	●	●	●	●
CO	●	●	●	●	●
CO ₂	●	●	●	●	●
NMHC	●	●	●	●	●

× : Not applicable
● : Available

STANDARD FEATURES

- Easy configuration and stand-alone operation
- Display: high resolution TFT colour LCD with CCFL backlight
- 4-20 mA output signal
- Remote range I.D. contacts (application dependent)
- Dry contacts - system status, 2 alarms
- Electronic carrier and sample flow PID control system
- Cabinet temperature regulation eliminating temperature drift (ambient temperature from 59°F to 95°F)
- Internet/Ethernet control software to remotely control the K4000^{ng}

OPTIONAL FEATURES

- Report monitoring software: Monitor on a PC the chromatograms and the process results computed by the K4000^{ng}. This software uses an Internet/ Ethernet link and can also be used to generate statistics and historical values.
- Quick check configuration: when the background gas and the carrier gas are the same, a quick check allows a total gas purity verification as a GO-NO-GO. One sample injection of all impurities is performed with the G.C. column bypassed. Based on the degree of change on the baseline, the total gas impurity can be evaluated.
- Remote starting digital input
2 isolated analogue inputs
2 isolated digital inputs
1 dry contact

www.servomex.com
info@servomex.com

HEAD OFFICE

Servomex Group Limited
Jarvis Brook
Crowborough
East Sussex
TN6 3DU
Tel: +44 (0)1892 652181
Fax: +44 (0)1892 662253

BUSINESS CENTRES

EUROPEAN (Europe, Middle East, Africa and India):
Toll Free from UK/France/Germany/Netherlands:

☎ +31 (0)79 3301581 Fax +31 (0)79 3420819
☎ 00800 7378 6639

AMERICAS:
Toll Free from US:

☎ +1 281 295 5800 Fax +1 281 295 5899
☎ 1 800 862 0200

ASIA PACIFIC:

☎ +86 (0)21 6489 7570 Fax +86 (0)21 6442 6498



Certificate No. Q05166
BS EN ISO 9001



Certificate No. EMS82701
BS EN ISO 14001

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

© Servomex Group Limited. 2008. A Spectris company. All rights reserved.



PBk4000 Rev.1 02/08 A