

# SERVOPRO Chroma (k4000<sup>ng\*</sup>)

Trace gas analyser

- 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:	250 watts (application dependent)
Power supply:	115V ac, 50-60Hz or 220V ac, 50-60Hz
Weight:	11 to 27Kg (25 to 60lbs)
Dimensions (W x D x H):	k4000 <sup>ng</sup> chassis or slave chassis Standard rack-mount 4U enclosure 482mm x 600mm x 177mm (19" x 24" x 7")

\* Patents pending

The SERVOPRO Chroma (k4000<sup>ng</sup>) is a basic mainframe that is customised 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<sup>ng</sup> the most compact solution available. The most popular applications are shown in the table below.

Impurities	Background Gas				
	H <sub>2</sub>	O <sub>2</sub>	N <sub>2</sub>	Ar	He
H <sub>2</sub>	×	●	●	●	●
O <sub>2</sub>	×	×	●	●	●
N <sub>2</sub>	●	●	×	●	●
Ar	●	●	●	×	●
CH <sub>4</sub>	●	●	●	●	●
CO	●	●	●	●	●
CO <sub>2</sub>	●	●	●	●	●
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
- Internet/Ethernet control software to remotely control the k4000<sup>ng</sup>

#### OPTIONAL FEATURES

- Report monitoring software: Monitor on a PC the chromatograms and the process results computed by the k4000<sup>ng</sup>. This software uses an Internet/ Ethernet link and can also be used to generate statistics and historical values.
- Remote starting digital input

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