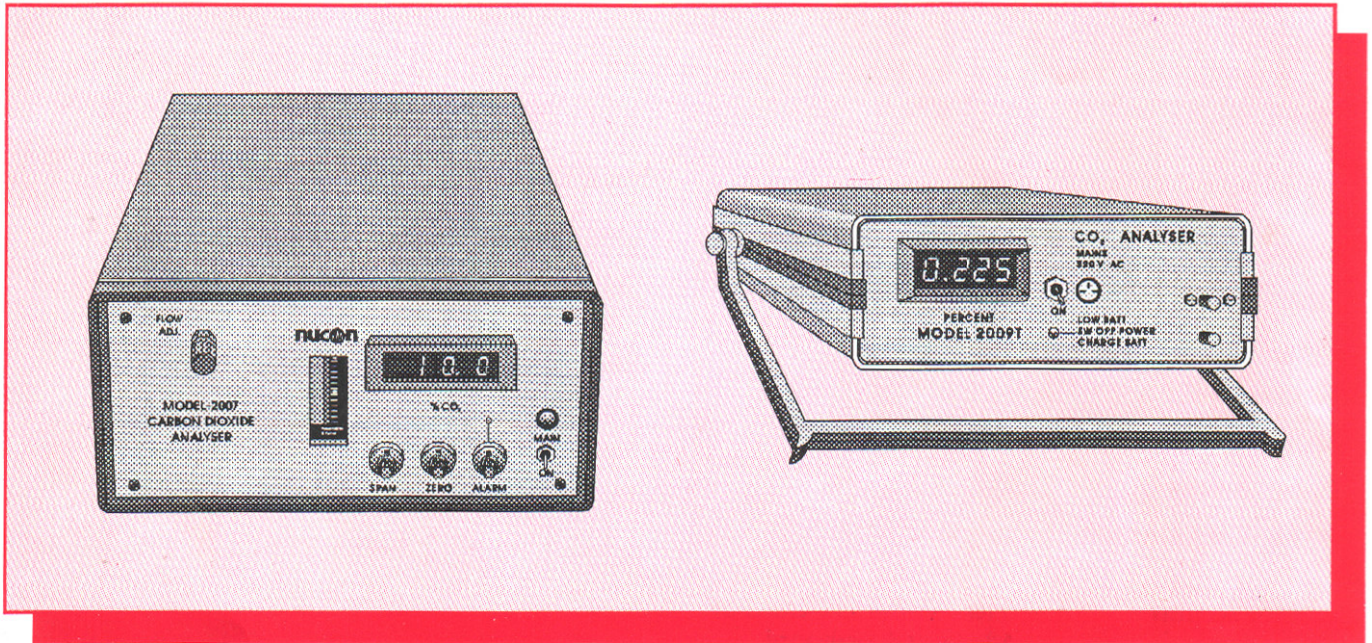


CARBON DIOXIDE ANALYSER

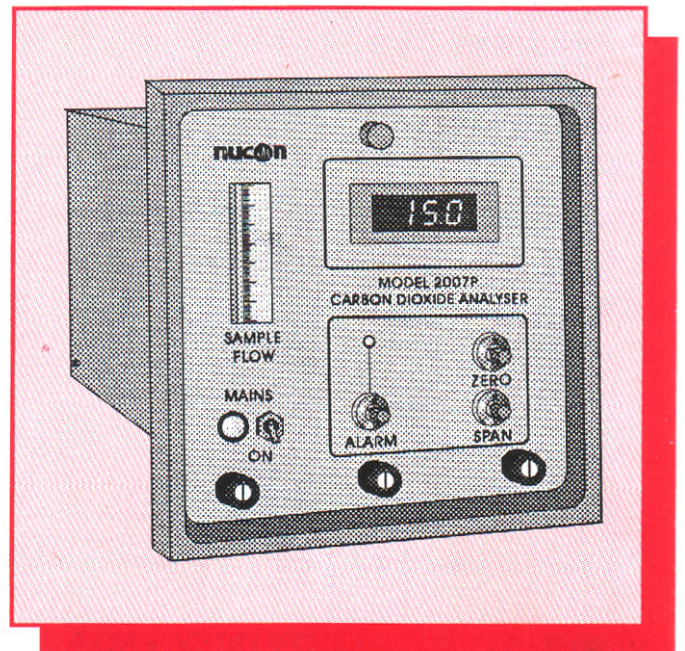
MODELS

- 2005/2005P for 0 – 100.0% • 2007/2007P for 0 – 20.0% • 2009/2009P for 0 – 0.500%



NUCON Series 2000 Carbon Dioxide Analysers cover the range 0.001 to 100.0% in various models and provide spot check or continuous analysis in laboratory, open areas or in industrial gas streams. Models 2005, 2007 & 2009 are Bench top versions while 2005P, 2007P & 2009P are Panel Mounting Instruments. The transducer works on the principle of Non Dispersive Infra Red Absorption. It requires no periodic maintenance and is non depleting type i.e. no consumables are required. The output is available on a digital readout. Recorder terminals are provided on back panel.

The Panel Mounting Versions have set alarm facility available on a ten turn direct reading dial and the output is a one pole two way relay with potential free NO, C, NC contacts brought out on the back panel.



CARBON DIOXIDE ANALYSER SERIES 2000

DESCRIPTION

The Nucon series 2000 is based on Non Dispersive Infrared Gas Absorption, designed for spot check or continuous online monitoring of Carbon Dioxide.

The Optical Diffusion Head is completely unaffected by humidity. The transducer output may be interfaced to any controller unit via the 0 to 1 V or the 4 to 20 mA output signals.

The series 2000 provides N.D.I.R. performance at very economical prices.

A portable version as Model 2005T/2007T/2009T with rechargeable Batteries is also available.

SPECIFICATIONS

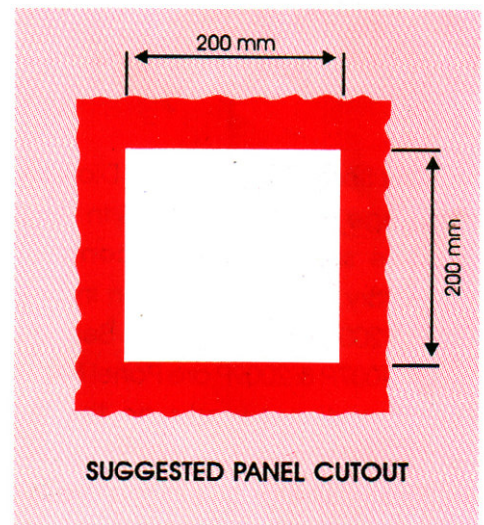
Method	:	N.D.I.R.
Gas	:	Carbon Dioxide
Range	:	As per Model
Accuracy	:	$\pm 3\%$ of full scale
Repeatability	:	$\pm 1\%$ of full scale
Power Source	:	220V AC Mains
Power Consumption	:	Less than 3 watts for Transducer
Output Signals	:	0 to 1 Volt = standard or 4 to 20 mA optional
Zero Drift at Constant Temp.	:	Less than 0.2% CO ₂ per month
Zero Drift Due to Ambient Temp.	:	Less than 0.02% CO ₂ per degree centigrade
Operating Temp.	:	-10 to 60 degree centigrade
Storage Temp.	:	-20 to 70 degree centigrade
Weight	:	Less than 0.5 lb for Transducer
External Dimensions	:	W 350 mm H 150 mm D 255 mm for Bench Top. 200 x 200 mm Panel Cut Out & D 305 mm for Panel Mounting.

FEATURES

- ❖ Non Dispersive Infrared Technology
- ❖ No Free Air Optical Path
- ❖ Fast Warm-Up
- ❖ Low Current Drain
- ❖ Simple Operation
- ❖ Cost Effective - High Quality
- ❖ No Moving Parts
- ❖ Solid State Throughout
- ❖ Unaffected by Humidity or Moisture
- ❖ Maintenance Free Continuous Operation

AREAS OF APPLICATION

- ❖ HVAC
- ❖ Hospitals
- ❖ Offices
- ❖ Schools
- ❖ Theaters
- ❖ Indoor Sports Arenas
- ❖ Process Control
- ❖ Laboratories
- ❖ Food Processing
- ❖ Industry
- ❖ Research
- ❖ Chemical/Gas Industry



Manufactured by :

NUCON ENGINEERS

S-18, OKHLA INDUSTRIAL AREA PHASE II, NEW DELHI - 110 020 INDIA
TEL. : 6841013, 6911088, 6823818 FAX : 011-6910815 TELEX : 031-75377-NUON IN

MUMBAI : 503, SOLARIS II, OPP. L&T GATE NO.6, SAKIVIHAR ROAD, POWAI, MUMBAI-400 072 TEL. : 8524674

A POLICY OF CONTINUOUS PRODUCT IMPROVEMENT MAY MAKE THIS INFORMATION OUTDATED. WE RESERVE THE RIGHT TO MAKE CHANGE WITHOUT PRIOR INTIMATION.

NUCON SERIES 2000 INFRARED GAS ANALYSERS

Series 2000 are specific Gas Analysers based on Absorption in the Infrared region. These are useful in On-Line and Off-Line applications.

Specific Models are offered for different gases which include:

<u>MODEL NO.</u>	<u>SPECIFIC GAS</u>	<u>RANGE</u>	<u>RESOLUTION</u>
2007 P	CARBON DIOXIDE CO ₂	0-20.0%	0.1%
2009 P	CARBON DIOXIDE CO ₂	0-0.500%	0.001%
2005 P	CARBON DIOXIDE CO ₂	0-500 PPM	1 PPM
2015 P	CARBON DIOXIDE CO ₂	0-2000 PPM	1 PPM
2025 P	CARBON DIOXIDE CO ₂	0-100.0%	0.1%
2035 P	CARBON DIOXIDE CO ₂	0-10.0%	0.1%
2045 P	CARBON DIOXIDE CO ₂	0-1.000%	0.001%
2101 P	CARBON MONOXIDE CO	0-3.00%	0.01%
2102 P	CARBON MONOXIDE CO	0-10.00%	0.01%
2103 P	CARBON MONOXIDE CO	0-30.0%	0.1%
2105 P	CARBON MONOXIDE CO	0-100.0%	0.1%
2201 P	METHANE CH ₄	0-1.000%	0.001%
2203 P	METHANE CH ₄	0-30.0%	0.1%
2205 P	METHANE CH ₄	0-100.0%	0.1%
2301 P	HEXANE C ₆ H ₁₄	0-2000 PPM	1 PPM
2401 P	GENERAL HYDROCARBONS HC	0-2000 PPM	1 PPM
2501 P	NITROUS OXIDE N ₂ O	0-1000 PPM	1 PPM
2601 P	REFRIGERANTS (FREONS/HCFC/CFC)	0-1000 PPM	1 PPM
2701 P	AMMONIA NH ₃	0-1000 PPM	1 PPM

