**Flue gas analyzer for reliable combustion & pollution monitor**

# *GASMASTER 720*


## 1. INTRODUCTION

GASMASTER 720 SERIES is designed for installation whenever there is the need to monitor the environment for gases such as O2, CO, CO2, NO, NO2, SO2 etc and temperature. In addition to the benefit of lowering fuel usage, there is also less pollution by products of inefficient combustion. GASMASTER 720 is also applicable for measurement of environmental laboratories and on purpose.
This analyzer with recorder can be also used combustible efficiency treatment and information of maintenance. GASMASTER 720 SERIES will be to work with you in designing and specifying the proper system for your application.

## 2. FEATURES

- Digital Display (L.E.D)
- Explosion Proof Grade: **Ex(d) ⅡB T4**
- Small dimensions & Light weight
- Easy to use
- Variable measuring objects: O2, CO, CO2, NO, NO2, SO2, Temperature
- Being housed in rack case suitable for mounting on a panel
- Interfacing with recorder and computer (optional)
- Automatic continuous monitoring
- Easy to select measuring gases on multi gas analyzer
- selectable as ppm or vol % on applications.

# 3. SAMPLING SYSTEMS

For many applications, a sampling system is required to extract and/or condition a gas sample prior to its contact with sensors. For example, if the gas temperature exceeds the maximum sensor temperature rating, a sampling system with a coil of copper or stainless steel tubing* upstream of sensor will reduce the gas sample temperature to ambient and protect the sensor. The use of a sampling system often provides better, more reliable, long- term dew/frost point measurements for the following reasons:

1. The sample gas can be filtered to remove undesirable solid and liquid particulate before they contaminate the sensor.
2. The flow rate can be measured and controlled at the optimum rate for the sensor and the application.
3. Measurements of high temperature (e.g. furnace) gases can be made by cooling the sample gas, while being careful to avoid condensation in the sampling system.
4. Dew points higher than ambient temperature can be measured using a heated sampling system and/or individually heat- traced components.

It is important to remember that the sampling system must not affect the water vapor measurement in any way. Thus system temperature is critical as well as wetted materials in contact with the sample gas. Also, it is important to keep sample systems as simple as possible, in order to avoid excessively long response times.
Our Applications Engineering Staff will be to work with you in designing and specifying the proper sampling system for your application.

# 4. 4. GASMASTER 720 SERIES SPECIFICATIONS

| | |
|---|---|
| **Measuring Objects** | O2, CO, CO2, NO, NO2, SO2, Temperature |
| **Measuring Range** | O2: 0-25%, CO2: 0-20%<br>CO: 0-500ppm, 0-1000ppm, 0-2000ppm, 0-2%<br>NO: 0-1000ppm, 0-5000ppm<br>NO2: 0-100ppm, 0-2000ppm<br>SO2: 0-1999ppm, 0-4000ppm<br>Temperature: 0-1200℃<br>Other Gases (option) |
| **Accuracy** | O2: +/-0.3% F.S<br>Other Gases: Better Than 2% |
| **Ambient Temperature** | -20 to 50℃ |
| **Analog Outputs** | 4-20 mA |
| **Sensor Type** | NDIR, Electrochemical |
| **Supply** | 110/ 220 VAC, 60Hz |
| **Dimensions** | 260mm(W) X 160mm(H) X 95mm(D) |
| **Weight** | 8.5 Kg |
| **Case Material** | Steel & Aluminum |
| **Options** | Inter Pump/ Computer Interfacing/ Recorder |
| **Explosion Proof** | Ex(d) ⅡB T4 |

CHINSAN TRADING CO.,LTD.
ADDRESS : 103-805 Puchon-Technopark #364 Samjung-Dong
Ojung-Gu, Puchon, Kyunggi-Do, Korea
PHONE : 82-32-621-2300 FAX : 82-32-621-2308
Web-Site : www.chinsan.co.kr