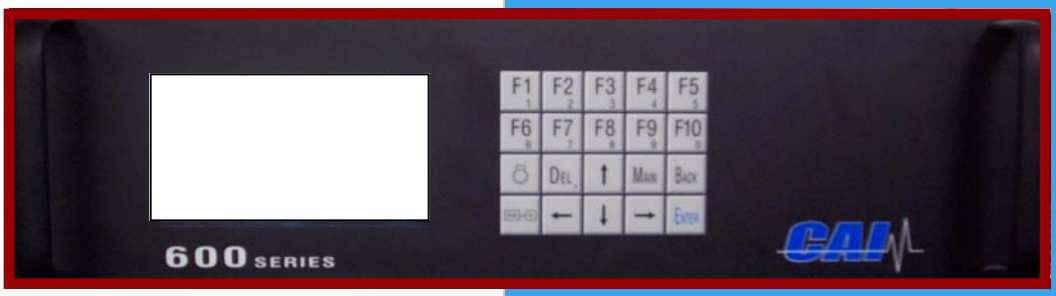
MODEL 600 SGD



PROGRAMMABLE

GAS DIVIDER

with

OPTIONAL NOx

EFFICIENCY TESTER

FEATURES

- **Fast Response Time**
- **Eliminates Many Precision Cylinders**
- **Computer Interface with AK Protocol**
- **Remote Operation Capability**
- **63 Precision Divider Points**
- **Highly Accurate with Long Term Stability**
- **19 Inch Rack Mount**

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600 SGD

DESCRIPTION

The Model 600 SGD will allow a master calibration gas to be diluted by up to 63 points with and dilute gas. Savings in master gas cylinders and automatic operation will provide a cost effective solution to large inventories of cylinders.

The internal microprocessor offers different levels of access with code protected user levels to protect from unauthorized changes of internal parameters. The internal gas list is used to store various gases and user friendly software allows simple operation. Serial interface via RS 232 and TCP/IP allows the divider to be used with an external PC for programmed automatic operation.

The Model 600 SGD may be ordered with an integral NOx efficiency tester to be incorporated in automated gas analysis systems.

METHOD OF OPERATION

The California Analytical Model 600 SGD Gas Divider is a sophisticated tool used to generate accurate calibration curves for gas analyzers. It utilizes a combination of critical flow orifices (nozzles), each with different calibrated flow rates. The pressures for both the master and dilute gas are controlled by precision regulators which provide a long term accuracy and stability of 0.4% of point.

Local operation is simplified using the 1button alphanumeric keypad with data presented on a back lit LCD display. All local operations may be performed remotely via the RS-232 serial link or TCP/IP.

The use of critical flow nozzles and pressure regulators eliminates the effect of output concentration changes due to back pressure (analyzer) variation. Dividers based on capillary and mass flow technology cannot reach the accuracy and stability. Further assuring accuracy, each dilution step is factory calibrated and certified individually.

SPECIFICATIONS

DIVIDER METHOD: Critical Flow Orifices (Nozzles) with Precision Pressure Regulators

DIVISION STEPS:
63 Steps at 1.587% increments (PGD-63)

PRECISION: 0.4% of Output

RESPONSE TIME: Approximately 20 Seconds

SUPPLY PRESSURE: 37 to 60 PSI

OUTLET BACK PRESSURE: Less than 5 PSI

OUTLET FLOW: 5 Liters per Minute

DISPLAY: Back Lit LCD, 9.5 X 5 Inches

INTERFACE: RS232 V 24/TCP/IP, AK Protocol

WARM-UP TIME: 1 Hour

NOx GENERATOR: 30-100 ppm OR
300-1000 ppm NOx

FITTINGS: 1/4 Inch Tube

POWER REQUIREMENTS: 115/230 (±10%) VAC 50/60 Hz; 160 Watts

DIMENSIONS: 5¼ H × 19 W × 20 D (Inches)

RELATIVE HUMIDITY: Less than 90% RH

WEIGHT: 22 Pounds

Specifications subject to change without notice.

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