

The IAC-24 is a dramatically new approach to automatic calibration equipment. It has no user adjustable parts and it is only 4 \_ inches wide! Just connect the calibration and reference gases, set the correct pressure, and let the device and analyzer do the rest. There are no gas flowmeter or calibration tube head losses to worry about.

The IAC-24 is an ultra compact device that mounts directly onto the ZR22G or ZR202G zirconia detector. It is used to calibrate a single detector. The unique mounting configuration is designed to minimize installation time, wire pulls and tubing runs that are typical with auto calibration.



All oxygen detectors require calibration. Calibration is simply the process of correcting the output of the zirconia cell for slight changes in temperature, atmosphere and electrical characteristics. It involves correlating the small voltage signal from the oxygen measurement cell to that of a known gas concentration.

Recommended for indoor installations only.

### General Specifications:

Input pressure:	7psig +/- 2
Output Flow:	Ref: 0.8 SLPM Cal. 0.0 6SLPM
Dimensions:	4.5" x 3.5" x 1.9" (w 115mm x h 89mm x t 49mm)
Electrical requirements:	24 V DC
Connections:	2 x 1/4" swage type pneumatics fitting 3 pin "quick connect" power fitting
Ambient Temp:	194°F (90C)

Auto calibration saves money by reducing the man-hours required to maintain oxygen equipment. It also saves money by eliminating errors that occur during the calibration process. Variants in the manual calibration process, such as changes to calibration flowrate and inconsistent or incomplete stabilization time account for a large percentage of calibration errors. These errors can have dramatic effect on the oxygen measurement that results in poor fuel usage and higher NOx emissions. A 10% change in excess air has a 1% change on fuel usage!

The IAC-24 integral autocalibration unit pays for itself in days considering the savings of labor, materials and fuel costs that it creates.

When ordering the IAC-24 for use with the ZR22G, use cable option WZ-[ ]-6H-[ ]. This cable contains the required zirconia detector wire as well as the “quick connect” fittings and power wire for the IAC-24 unit.

When using the IAC-24 with the ZR202G no additional cable is required. The connections are internal to the device.

