

Dynacalibrator® Calibration Gas Generators

- PPB to high PPM range
- Precise temperature control to 110°C
- CE certified
- Economical, flexible alternative to bulky bottled gas mixtures



Description

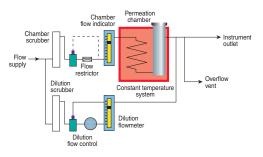
VICI Metronics Dynacalibrators enable calibrations traceable to NIST standards for almost any gas analyzer, in the lab or in the field. The design takes full advantage of all the conveniences inherent in our Dynacal® permeation devices to generate and deliver precise concentrations ranging from ppb to high ppm for hundreds of different compounds. Standard features on all our models, from the most basic Model 230 to the most fully equipped Model 450, facilitate accurate, reproducible, trouble-free calibrations time after time.

Standard features include our proprietary constant temperature system, a front-access permeation chamber large enough to accomodate several permeation devices, and a flexible flow metering system traceable to NIST standards. Dynacalibrators can be supplied with internal pumping systems, eliminating the cost and inconvenience of external pumps, gas cylinders, regulators, and special plumbing. Units with pumps can be equipped with accessory bypass loops that provide for external modification of the carrier and/or dilution gas streams.

Models

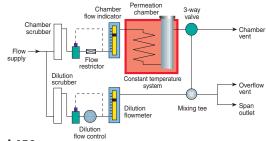
Model 230

The Model 230 is our basic calibration instrument, offering all the standard features and configurations.



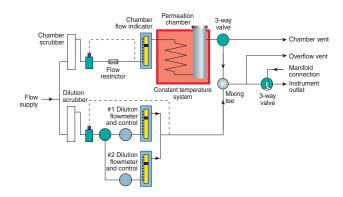
Model 340

A front panel MODE CONTROL switch selects ZERO, SPAN, or REMOTE calibration modes. In the REMOTE mode, the Model 340 can be programmed to deliver a ZERO and a SPAN reference on command. In the ZERO mode, scrubbed air is delivered to the STREAM OUTLET.



Model 450

Our most versatile calibration instrument incorporates a second channel of dilution gas flow and a unique "through-port" feature which eliminate the necessity of changing plumbing connections between the sample manifold, the analyzer, and the calibrator for each calibration. Also included is a front panel MODE CONTROL switch to select STANDBY, ZERO, SPAN 1 (low concentration gas), SPAN 2 (high concentration gas), and REMOTE. In the REMOTE mode, the Model 450 can be externally programmed to operate in all of its functional modes.



Specifications

Permeation device Maximum length Maximum diameter	24 cm (9.5") 1.6 cm (0.62")
Permeation chamber	PTFE or Pyrex [®] Will accomodate multiple devices
Flowmeters	High resolution 15 cm graduated scale. Certified ±1% accuracy full scale, NIST traceable. Full scale ranges of 1,2,5,10,
Flowmeter calibration accuracy (max % deviation from float setting) At maximum flow At minimum flow	15, and 20 L/min. 1 %
Ambient operating temperature	10°C - 40°C
Temperature indicator	Digital display
Temperature controller	Solid state proportional with 0.1°C set point accuracy, NIST traceable.
Temperature control range	5°C above ambient to 110°C
Permeation chamber temperature equilibration time	< 1 hr
Pumps	Diaphragm pumps for continuous operation. Available for 10 or 20 L/min capacity
External gas stream supply and modification	Instruments with separate stream inlets or stream bypasses have provision for connecting dehydrators, special scrubbers, filters, etc. in series with the carrier and/or dilution gas streams
Case dimensions	17" wide x 23.75" deep x 10.5" high (43.2 cm x 60.3 cm x 26.7 cm)
Instrument weight Units with internal pumps Model 230 Model 340 Model 450 Units without internal pumps Model 230 Model 340 Model 450	56 lbs. (25.4 kg) 59 lbs. (26.8 kg) 43 lbs. (19.5 kg) 44 lbs. (20.0 kg)
Power consumption Units with internal pumps Model 230 Model 340 Model 450 Units without internal pumps Model 230 Model 340 Model 340 Model 450	300W 340W 100W 110W
Instrument noise emission (at 3 ft) Units with internal pumps Units without internal pumps	55 - 60 dBa 45 - 50 dBa

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