

## Dynacalibrator® Calibration Gas Generators

- Deliver precise concentrations from ppb to high ppm
- Use Dynacal® permeation devices as the trace gas source, with front panel access to the permeation chamber
- Proprietary constant temperature system controls chamber temperature at a set point with  $\pm 0.1^\circ\text{C}$  accuracy
- Choice of plumbing and flow configurations

VICI Metronics Dynacalibrators allow you to verify the accuracy of analytical data from air pollution monitoring, industrial hygiene surveys, odor surveys, and other instruments measuring gas concentration. All models 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 150 to the most fully-equipped Model 500, facilitate accurate, reproducible, trouble-free calibrations time after time.

### Model 120 Portable Dynacalibrators®

- Completely portable
- Pump powered by rechargeable battery or a 12 VDC source (inverter with cigarette lighter plug provided)
- Available temperature control from  $5^\circ\text{C}$  above ambient to  $100^\circ\text{C}$
- Utilizes permeation devices – no bulky cylinders

Standard features on Model 120 include a glass or Teflon® permeation chamber with screw cap access, solid state proportional temperature controller with digital readout of set point and chamber temperature, heater switch with LED indicator, flowmeter and flow control valve, span and overflow outlets, 12 VDC internal pump, activated charcoal scrubber, and molded fiberglass case.



### Model 150 Dynacalibrators®

- Temperature control with an accuracy of  $\pm 0.01^\circ\text{C}$  from  $5^\circ\text{C}$  above ambient to  $110^\circ\text{C}$
- Ultra compact
- PPB to high PPM range

At only 6" wide x 15" deep x 7" high and 10.5 pounds, the Dynacalibrator 150 is a compact calibrator capable of delivering the precise concentrations you require. A passivated glass-coated stainless steel permeation chamber houses the permeation device(s). Carrier and dilution flow rates must be supplied and measured externally. The digital temperature controller maintains the chamber temperature at a set point with an accuracy of  $\pm 0.01^\circ\text{C}$ , traceable to NIST standards. The wide range of temperature settings ( $5^\circ\text{C}$



above ambient to  $110^\circ\text{C}$ ) means the end user can generate a wide range of volumetric concentrations for both low and high vapor pressure chemical compounds, establishing or changing the desired volumetric concentration by simply varying the carrier flow.

**Dynacalibrator® Calibration Gas Generators**

**Model 230 Dynacalibrators®**

With a flexible flow metering system to maintain a constant carrier flow through the permeation chamber, the Model 230 allows the dilution flow to be varied over a wide range, generating the spectrum of concentrations required for checking analyzer linearity. Like all Dynacalibrators, its permeation chamber is big enough to accommodate several permeation devices, for higher output concentrations or multi-component mixtures.



**Model 450 Dynacalibrators®**

Ordinarily, the plumbing connections between the sample manifold, analyzer, and calibrator must be changed for each calibration. The Model 450's unique "through-port" feature eliminates this chore. The mode control switch selects among standby, zero, span 1 (low concentration), and span 2 (high concentration) modes.



**Model 340 Dynacalibrators®**  
*(not shown)*

The Model 340 adds a front panel mode control switch to select between zero or span calibration modes. In the zero mode, scrubbed air is delivered to the span outlet, allowing the end user to establish zero before sampling.

**Model 500 Dynacalibrators®**  
*(not shown)*

This innovative design features two separate permeation chambers with independent temperature control systems. The chambers can be used independently, or together to combine concentrations of trace components. Separate solenoid valves allow the carrier flows to be switched from the dilution stream to a vent port.

**TO ORDER**

For prices or more information about specific compounds available in permeation devices, contact VICI Metronics:

Toll-free

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