Gas Calibration Systems

A comprehensive selection of precision calibration instruments, supporting the needs of the ambient air monitoring community

- **Model 322 Gas Dilution Calibrator**
- **Model 322-732 Dilution Calibrator with Ozone Primary Standard Photometer**
- **Model 734 Ozone Primary Standard**
- **Model 724 Ozone Transfer Standard (US EPA Equivalent Method EQOA-0407-165)**

Portable Docking Station

Model 322-732 Dilution Calibrator with Photometer in a Rack Mountable Dual Docking Station

Tanabyte is proud to present a comprehensive line of gas calibration instruments, designed with the specific needs of auditors, laboratory quality assurance engineers and site operators in mind.

Whether your need is for a precision gas dilution calibrator or an ultra-precise ozone standard, the pneumatics and electronics needed to perform the calibration function is mounted on a removable "module" that can be inserted into one of two types of enclosure or "Docking Stations".

The Portable Docking Station is small and rugged - ideal for field auditors and traveling service personnel. The Dual Docking Station supports two independent modules in a rack mountable enclosure. Its 5¼" height takes up less rack space than other rack-mount calibrators on the market, which are typically 7" or higher.

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Common Features:

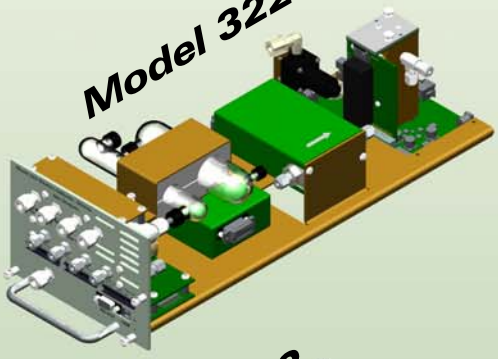
- Advanced microprocessor diagnostics assure optimal operation.
- Color graphic display with high contrast, wide viewing angle and large digits
- The menu system, patterned after the popular Dasibi 5008, is very intuitive and easy to learn and use.
- Analog inputs allow the results of instrument calibrations to be captured.
- Analog outputs allow measurement or diagnostic data to be sent to a data logger or chart recorder.
- A removable SD Flash Memory Card allows the results of calibrations to be saved and later viewed, analyzed or charted on a PC. In addition, setup and internal calibration data may be up or down loaded via the SD card.
- Pre-programmed calibration sequences may be entered and initiated manually, automatically at preset times or by digital input command.
- A variety of networking and data acquisition options are supported on Serial RS-232 and USB ports, including Dasibi "Dot" commands, the Modbus protocol and remote operation via menus.
- The modular design simplifies maintenance. Using an extension cable, the module can be operated outside the docking station while servicing.

Tanabyte Engineering, Inc.

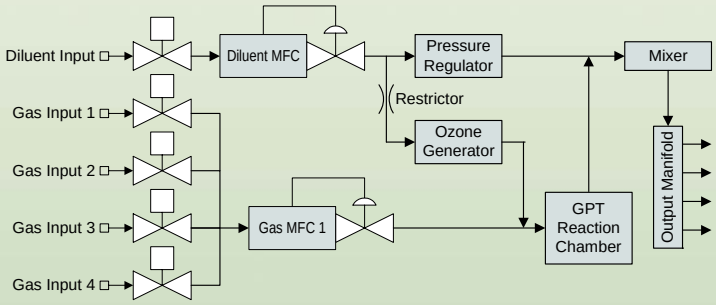
Calibration Modules

The heart of all Tanabyte Calibrators is the Calibration Module. Each Module consists of a tray with a rear panel attached onto which all pneumatics, electronics and software needed to perform the specific calibration function is mounted. One or more Calibration (or Gas Analysis) Modules can be plugged into the Docking Station that best suits the needs of the application. For ease of service, each module is self-contained and can be operated, calibrated and maintained independent of the Docking Station, by simply applying DC power or by using an extender cable and operating from a PC or Docking Station front panel.

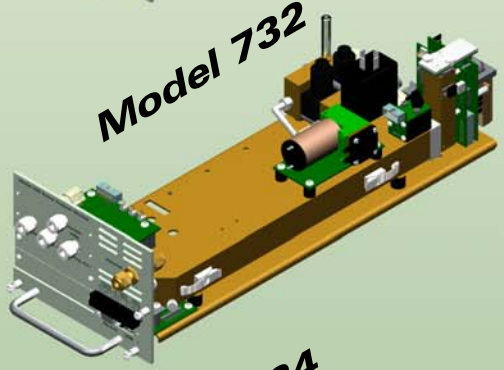
Model 322



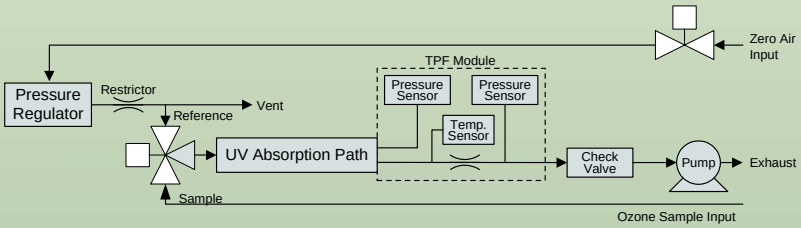
Gas Dilution Calibrator



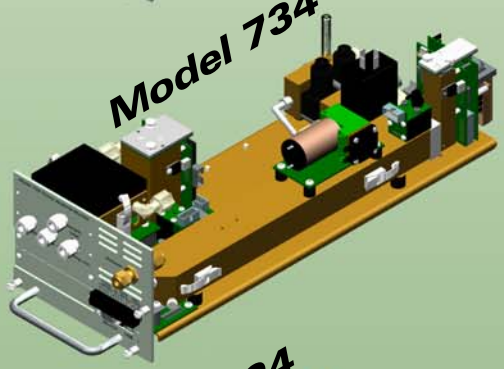
Model 732



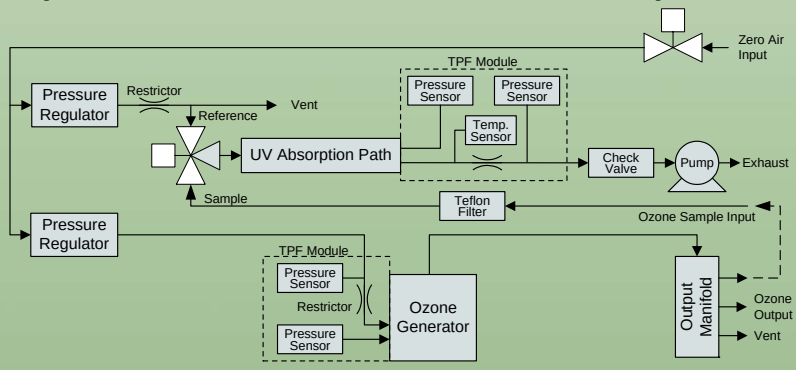
Ozone Primary Standard Photometer
(Model 322 Photometer Option)



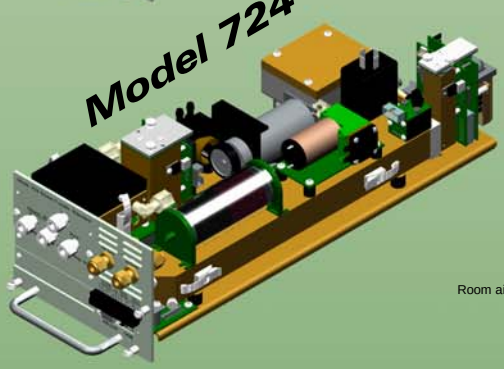
Model 734



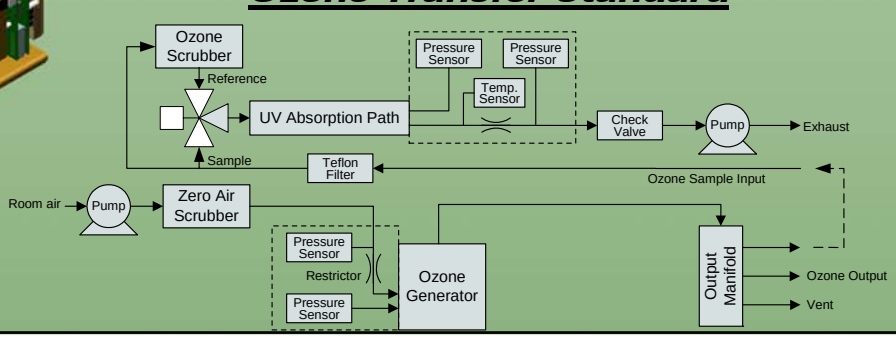
Ozone Primary Standard Calibrator
(Standalone, with Ozone Generator)



Model 724



Ozone Transfer Standard



Selecting a Docking Station

Though Tanabyte calibration and analysis modules represent complete, self-contained systems, autonomously performing their designated calibration or gas analysis functions, they require an enclosure, DC power and some means of retrieving data and interacting with the modules. Docking Stations provide all these in addition to other services, such as ventilation and networking.

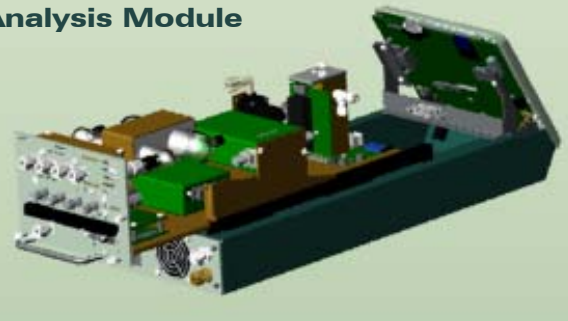
At the present time, Tanabyte offers two Docking Stations, primarily distinguished by the number of Docking Ports supported. The Portable Docking Station is designed not only to be rugged and reliable for portable applications, but also requires very little space for bench-top applications. The Dual Docking Station may be bench mounted or rack mounted, requiring only 5¼" of rack space.

Docking Station Common Features

- **Universal power supply operates from 90-264 VAC at 50 or 60 Hz.**
- **Color TFT display supports a graphical user interface that is easy to learn and use.**
- **Keypad with raised keys and tactile response**
- **SD Memory Card, removable from the front, for data and setup storage**
- **Optional Ethernet and USB ports for connection to a network or PC ***

***Contact Tanabyte about availability**

The Portable Docking Station supports any Calibration or Analysis Module



Docking Station Specifications

Physical Specifications

Dual Docking Station:
17" Wide x 5.25" High x 21" Deep (432 x 133 x 533 mm)
Empty Weight: 12½ lb (5.7 kg)

Portable Docking Station:
8.1" Wide x 9" High x 23.4" Deep (206 x 228 x 594 mm)
Empty Weight: 9 lb (4 kg)

Environmental Specifications

Operating Temperature:	5° to 45°C
Humidity:	0 to 90%, non-condensing
Power Requirements:	90 to 264 VAC, 50 or 60 Hz, 100 Watts max per Docking Bay

What is a Docking Station?

A Docking Station is a rugged enclosure designed to provide Docking Ports for one or more Tanabyte modules. In addition to enclosing the modules, a Docking Station has the following features:

- *Docking Ports for one or more modules*
- *A User Interface for controlling and monitoring the modules*
- *Power Supplies*
- *Ventilation*
- *Network Connections*
- *Data storage*

What is a Docking Port?

A Docking Port is a plug-in slot designed to accept any 7" wide analysis or calibration module manufactured by Tanabyte. Each Docking Port consists of two slides, captive nuts to secure the module in place and a docking connector to provide power and communications to the module when plugged in.

The Dual Docking Station Can support …

One …

… Or Two

Calibration or Analysis Modules

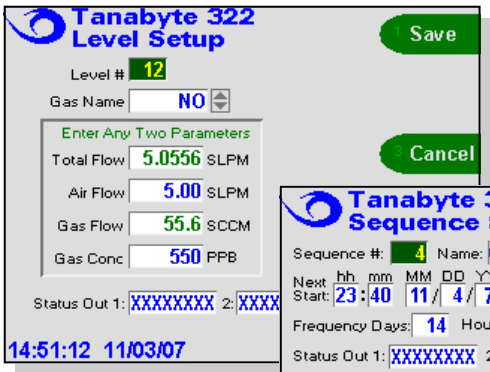
Advanced Software Features

Whether performing field audits, laboratory work or operating an air monitoring station, the advanced software features of Tanabyte Calibrators can make your job much easier.

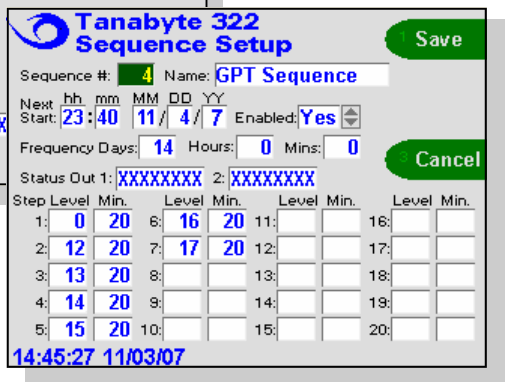
With a bright color display, a Graphical User Interface, an easy to follow menu system and raised keys with a positive tactile feel, Tanabyte calibrators are extremely easy to learn and use.

The multi-level menu system operates much like that of an ATM machine. Pressing buttons to the right of the display select the functions labeled on the screen. Cursor keys allow the screens to be navigated in an intuitive way while the numeric keypad allows numbers and text to be entered.

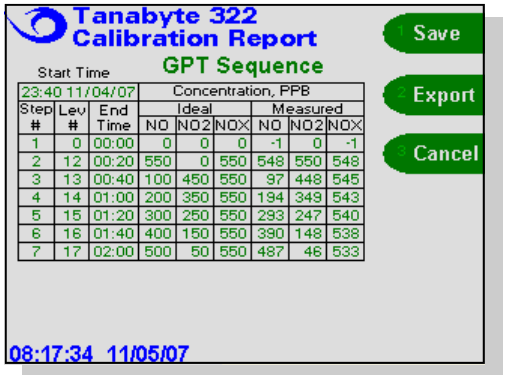
All parameters that affect the characteristics of a calibration gas can be controlled manually, from within the Control Menu. Alternatively, pre-programmed calibration "Levels" can be set up and activated manually, by remote digital control or from within timed "Sequences".



Sequences can be activated manually or by remote digital control but can also be started automatically at specified times and frequencies.



Connecting external instruments to the provided analog inputs allow detailed calibration reports to be automatically generated and saved to the SD Memory Card for later viewing on the front panel or a PC.



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