The Tanabyte 72x Series of Photometric Ozone Analyzers

Precision instruments for the Measurement and Calibration of Ozone

Direct Drop-In Replacements for the Dasibi Model 1008 series

USEPA APPROVED INSTRUMENTS

Model SA1-724
Ozone Transfer Standard
(SA1 Enclosure Type)



• 722 Ambient Ozone Analyzer

- 723 Transfer Standard with Cal/Sample Valves
- 724 Ozone Transfer Standard
- 725 Ozone Analyzer with Internal Zero/Span
- 726 Ozone Analyzer with Cal/Sample Valves
- 734 Ozone Primary Standard



Ozone Analyzer / Ozone Transfer Standard Combination
(SA2 Enclosure Type)

Tanabyte line of Easy-To-Operate Photometric Ozone Analyzers and Calibrators are designed as direct replacements for the industry standard Dasibi 1008 Series. The Analyzers and Calibrators exceeds the performance specifications of the Dasibi 1008 series while incorporating modern, advanced features.

All Tanabyte instruments are available as either a portable SA1 type or rack-mountable SA2 type, depending on the application needs.

The SA1 Enclosure type supports one module and requires a minimal amount of bench space. In addition, its lightweight and rugged design is ideal for field auditors and traveling service personnel.

The SA2 Enclosure type supports one or two Modules and is rack or bench mountable. Its 5¼" (same as Dasibi) height requires less rack space than similar instruments on the market, which are typically 7" or higher.

The Tanabyte instruments shares many common components with the Dasibi Model 1008 series and inhertits the Dasibi type "Dot Commands" protocol from the Dasibi Model 5008. The Audit Analog Input allows the Tanabyte calibrators to automatically generate Ozone Certification Reports.

Advantages and Features:

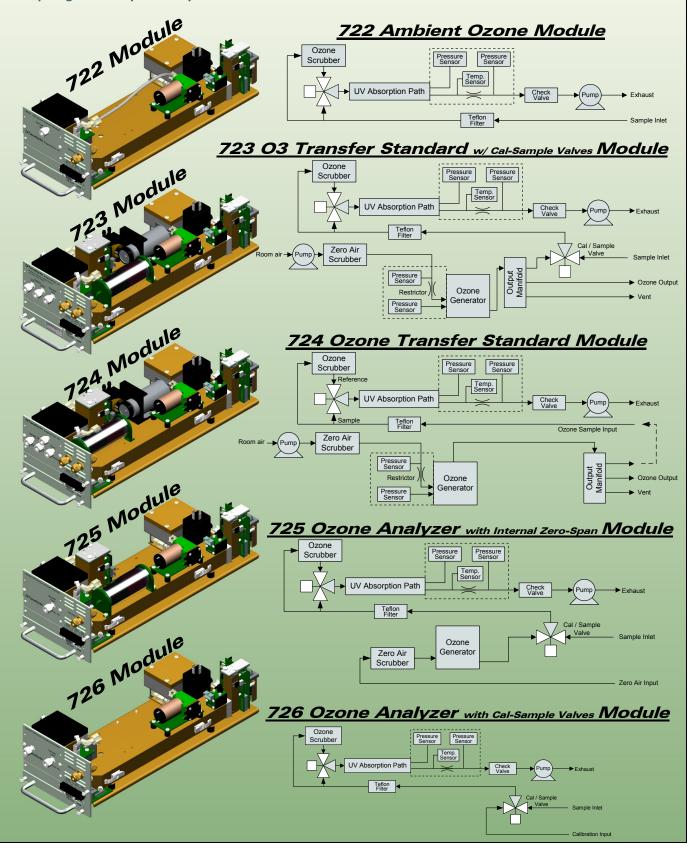
- U.S. E.P.A Equivalent Method Designation EQOA-0407-165
- Direct Replacements for the Dasibi 1008 series of ozone analyzers and ozone calibrators (including same physical dimensions).
- Utilizes the UV Photometric Measurement Technique, temperature and pressure correction.
- Tanabyte invented Dual USEPA Approved instruments combinations, for economical and engineering solutions.
- Superior performing Tanabyte designed Ozone Generator, producing the most accurate-stable-repeatable ozone even at very low concentrations.
- Tanabyte designed Audit Analog Input to certify another ozone analyzer.
- New smaller and light weight design (less than 20 Lbs), ideal for station monitoring, field auditors, QA Lab operators, and mobile air monitoring. Lowest instrument height profile of only 5.25 inches, rack space saving.
- Data storage, diagnostics, alarms, selectable units, RS232, Dasibi Dot Commands, Programmable Calibration Levels and Sequences.
- The modular design simplifies maintenance. By using an extension cable, the module can be decoupled and operated outside the SA1 and SA2 enclosure for easy servicing.



www.tanabyte.com Email: sales@tanabyte.com

Ozone Analyzer and Ozone Calibrator

All Tanabyte Ozone Analyzers and Ozone Calibrators incorporate a module with a precision USEPA Approved ozone photometer employing State-of-the Art Ultraviolet Absorption Technique. In addition, the calibrator modules include ozone generators for photometer feedback, to facilitate the calibration of the internal photometer, and to calibrate external ozone analyzers. With the Audit Analog Input feature the calibrating of external analyzers can be automated thus requiring minimal operator supervision.



Configurations

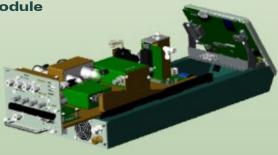
Tanabyte Ozone Analyzers and Calibrators comprise of two main sections, the analyzer or calibrator modules and the SA1 or SA2 enclosures. When one enclosure and one or two modules are coupled together they become one Analyzer or Calibrator.

Tanabyte offers two types of enclosures, the SA1 enclosure which support one module and the SA2 enclosure which can supports one or two modules.

The SAI is very versatile, durable, and light weight with a small foot print of only 8" wide and is classified as our portable-bench mounting version.

The SA2 has the conventional width of 17" wide to fit instrument racks and can be configured for bench mounting or rack mounting and has a height of only 5.25 " (same as Dasibi Model 1008 series) to economize space in instrument racks

The SA1 enclosure supports one module



Ozone Analyzer and Ozone Calibrator Model Numbers

SA1-722: Ozone Analyzer

SA1-723: Ozone Transfer Standard with Cal-

Sample Valves

SA1-724: Ozone Transfer Standard

SA1-725: Ozone Analyzer with Internal Zero-

Span

SA1-726: Ozone Analyzer with Cal-Sample

Valves

SA1-734: Ozone Primary Standard

SA2-722: Ozone Analyzer

SA2-723: Ozone Transfer Standard with Cal-

Sample Valves

\$A2-724: Ozone Transfer Standard

SA2-725: Ozone Analyzer with Internal Zero-

Span

SA2-726: Ozone Analyzer with Cal-Sample

Valves

SA2-734: Ozone Primary Standard

SA2-722-722: Ozone Analyzer and Ozone

Analyzer Combination

SA2-722-723: Ozone Analyzer and Ozone

Transfer Standard Combination

\$A2-722-724: Ozone Analyzer and Ozone

Transfer Standard Combination

SA2-726-724: Ozone Analyzer and Ozone Transfer Standard Combination

Other Instrument Combinations are available upon request.

Physical Specifications

SA1 Dimensions:	8.1" W x 9	" H x 23.4" L
Weight: SA1-722	=	19 Lbs
SA1-723	=	26 Lbs
SA1-724	=	24 Lbs
SA1-725	=	22 Lbs
SA1-726	=	20 Lbs
SA1-734	=	23 Lbs
SA2 Dimensions:	17" W x 5.	25" H x 21" L
Weight: SA2-722	=	22 Lbs
SA2-723	=	29 Lbs
SA2-724	=	27 Lbs
SA2-725	=	25 Lbs
SA2-726	=	23 Lbs
SA2-734	=	26 Lbs
SA2-722-72	2 =	32 Lbs
SA2-722-72	4 =	36 Lbs

Environmental Specifications:

Operating Temperature: 5° to 45°C Humidity: 0 to 90%, non-condensing

SA2 enclosure with two modules

Ozone Analyzer and Ozone Calibrator Specifications:

Ozone Photometer:

Measurement Range: 0-500 PPB, 0-1000 PPB,

0-10 PPM, or auto-ranging Sample Flow Range: Adjustable 0.5 to 2.0 LPM

Zero Noise: < 0.3 PPB

Span Noise: < 0.5% of reading (above 100 PPB)

Lower Detectable Limit (LDL): <0.5 PPB Precision: < 1 PPB

Linearity: < 1% of full scale Zero Drift: < .001 PPM per month Span Drift: < 1% of reading per wk

Lag/ Rise/ Fall: 10/ 20/ 20 Secs (Fast Cycle)

Resolution: 0.1 PPB

Ozone Generator:

Ozone Generator Range: 0 - 1200 PPB Minimum Non-Zero Ozone Output: 1 PPB Ozone Output Resolution: 0.5 PPB Ozone Output Linearity: +/- 1% of range 5 to 7 LPM Zero Air Flow Rate:

Zero Air Pollutant Concentrations: < 1 PPB O3, NO, NO2,

H2S, SO2, Hydrocarbons

Analog Outputs:

Number of Analog Outputs:

Analog Output Full Scale Ranges:

Analog Output Resolution:

Digital IOs:

Number of Digital IO: Status Input Voltage Range: **Control Output Voltage Range:** Number of Isolated Relay Output: **Relay Contact Voltage Range:**

Digital Ports: RS232 Ports Ethernet (Optional): Analog Input:

Number of Analog Inputs: **Analog Input Range:**

Power:

AC Input Power:

100 mV to 10 V

(Independently Selectable)

16 Bits

0 - 5 VDC TTL 0 - 5 VDC 2 (722, 724)

2 (9 Db) 1 (RJ45)

24VDC

0 - 1 VDC

The Model SA2-722-724 Ozone Analyzer and Ozone

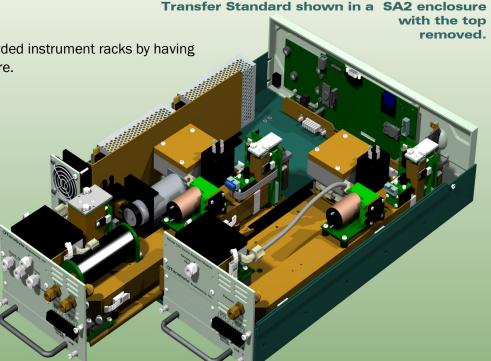
90 to 264 VAC, 50 or 60 Hz

Instrument Combinations:

· Cost effective solution

 Space saving solution to crowded instrument racks by having 2 instruments in one enclosure.

Split screen display



Analysis Modules are easily removed for calibration & service

