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



- 722 Ozone Analyzer
- 722V Ozone Analyzer with C-S Valve
- 723 Transfer Standard with Cal/Sample Valves
- 724 Ozone Transfer Standard
- 725 Ozone Analyzer with Internal Zero/Span
- 734 Ozone Primary Standard



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 5'4'' (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 inherit 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.

www.tanabyte.com Email: sales@tanabyte.com Model SA2-722-724 Ozone Analyzer / Ozone Transfer Standard Combination (SA2 Enclosure Type)

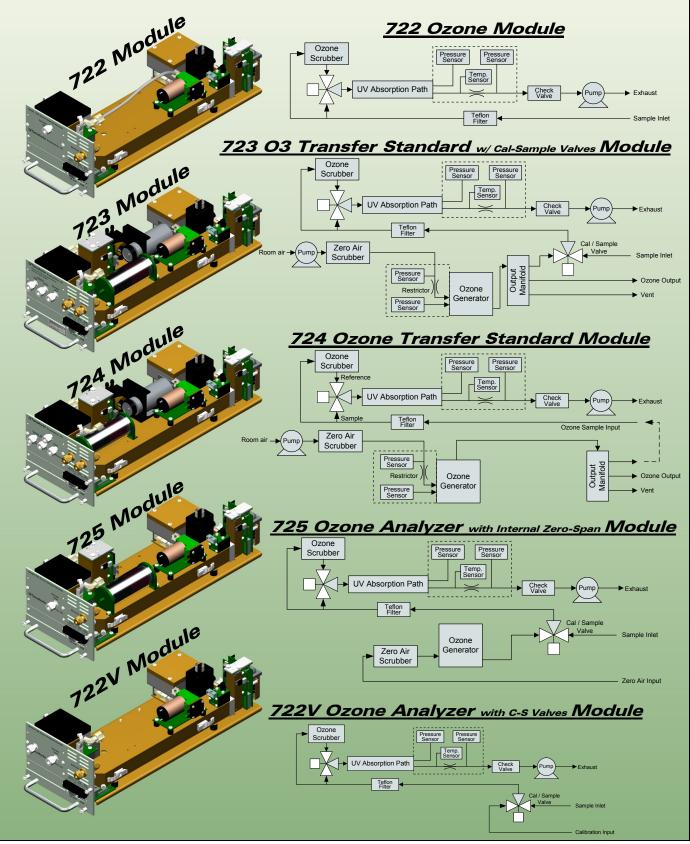
Advantages and Features:

- U.S. E.P.A Equivalent Method Designation EQ0A-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.



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.

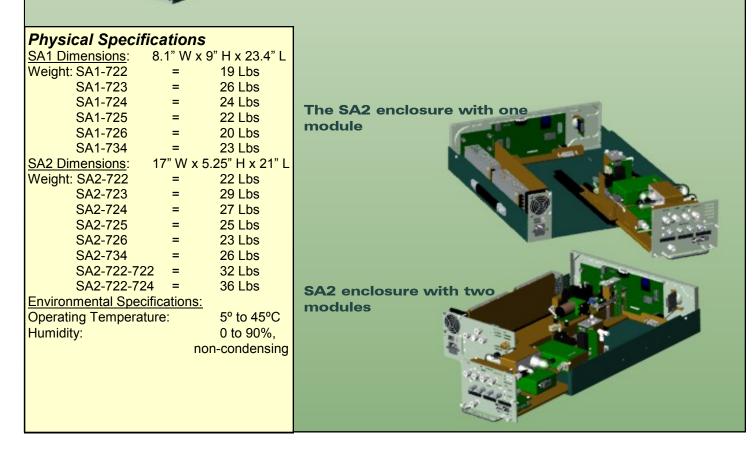
The SA1 is very versatile, durable, and light weight with a small foot print of only 8" wide and is classified as our portable-bench mounting version.

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 Analy	zer and Ozone Calibrator Model Numbers				
SA1-722:					
SA1-722V:	Ozone Analyzer w/ C-S Valve				
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				
SA2-722V:	Ozone Analyzer w/ C-S Valve				
SA2-723:	Ozone Transfer Standard with Cal-				
	Sample Valves				
SA2-724:	Ozone Transfer Standard				
SA2-725:	Ozone Analyzer with Internal Zero-				
	Span				
SA2-726:	Ozone Analyzer with Cal-Sample				
	Valves				
SA2-734:	Ozone Primary Standard				
SA2-722-72	2: Ozone Analyzer and Ozone				
	Analyzer Combination				
SA2-722-72	4: Ozone Analyzer and Ozone				
	Transfer Standard Combination				
SA2-722V-7	24: Ozone Analyzer with Cal/ Sample				
	Valve and Ozone Transfer Standard				
0 // / /	Combination				
Other Instrumen	t Combinations are available upon request.				



Ozone Analyzer and Ozone Calibrator Specifications:

Ozone Photometer:		Analog Outputs:	
Measurement Range:	0-500 PPB, 0-1000 PPB,	Number of Analog Outputs:	3
·	0-10 PPM, or auto-ranging	Analog Output Full Scale Ranges:	100 mV to 10 V
Sample Flow Range:	Adjustable 0.5 to 2.0 LPM		(Independently Selectable)
Zero Noise:	< 0.3 PPB	Analog Output Resolution:	16 Bits
Span Noise:	< 0.5% of reading	Digital IOs:	
•	(above 100 PPB)	Number of Digital IO:	4
Lower Detectable Limit (LDL):	<0.5 PPB	Status Input Voltage Range:	0 - 5 VDC TTL
Precision:	< 0.5% of reading	Control Output Voltage Range:	0 - 5 VDC
Linearity:	< 1% of full scale	Number of Isolated Relay Output:	2 (722, 724)
Zero Drift:	< .001 PPM per month	Relay Contact Voltage Range:	24VDC
Span Drift:	< 1% of reading per 24 hrs	Digital Ports:	
Lag/ Rise/ Fall:	10/ 20/ 20 Secs	RS232 Ports	2 (9 Db <u>)</u>
•	(Fast Cycle)	Ethernet (Optional):	1 (RJ45)
Resolution:	0.1 PPB	Analog Input:	
		Number of Analog Inputs:	1
Ozone Generator:		Analog Input Range:	0 - 1 VDC
Ozone Generator Range:	0 - 1500 PPB	Power:	
Minimum Non-Zero Ozone Output:	1 PPB	AC Input Power:	90 to 264 VAC, 50 or 60 Hz
Ozone Output Resolution:	0.5 PPB	-	
Ozone Output Linearity:	+/- 1% of range		

Instrument Combinations:

Cost effective solution

Zero Air Flow Rate:

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

5 to 7 LPM

H2S, SO2, Hydrocarbons

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

• Split screen display

Analysis Modules are easily removed for calibration & service



www.tanabyte.com sales@tanabyte.com

with the top

removed.

The Model SA2-722-724 Ozone Analyzer and Ozone

Transfer Standard shown in a SA2 enclosure